

The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from Non-Residents of North America until the expiration of ninety (90) days from November 1, 1925.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	30 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 years†	2 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

LIST OF APPLICANTS.

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sabang avara "erci" obeng
obeng radat si bengispoet sejati SG lo ana lo ambo eidetadon ?

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The numbers at the left of each name indicate the serial number of the applicant for the current year, and the district in which he resides.

The abbreviations in Italics represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of two years for graduation and of one-third of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Sub-Professional Work.

FOR ADMISSION

913 (11) ANDERSON, RUDOLPH WALTER, P. O. Box 445, Albuquerque, N. Mex. (Age 35. Born Erie, Pa.) 1913 B. S. in Highway Eng., Pa. State Coll. July 1913 to March 1914 Rodman and Draftsman, Delaware, Lackawanna & Western R. R. **TT 2.7: SP 2.7.** April 1914 to Oct. 1917 Jun. Engr., U. S. Reclamation Service; Party Chf. on location and construction of irrigation canals and structures, Inspector, computation of quantities, Instrumentman on tunnel construction. **TT 3.5: SP 2: P 1.5.** Oct. 1917 to July 1919 with U. S. Army, 29th Engrs., 1½ years overseas; Planetableman on extensive mapping work, and Party Chf. on numerous small surveys. **TT 1.8: SP 0.4: P 1.4.** Aug. 1919 to April 1920 and Aug. 1921 to March 1923 Party Chf., Inspector, Draftsman, design and plans, Pennsylvania State Highway Dept., during latter period mostly on design of grades and preparation of plans. **TT 2.3: P 2.3.** April 1920 to Aug. 1921 Asst. Engr., Edmund T. Perkins Eng. Co., Chicago, hydraulic computations for design of drainage districts, and design of structures (under Chf. Office Engr.). **TT 1.3: P 1.3.** March 1923 to date Asst. Engr., U. S. Indian Irrigation Service, on design and construction of irrigation works, domestic water supply for Indian schools, surveys, investigations and reports, on engineering projects. **TT 2.5: P 2.5: RC 2.5.** **TT 14.1: SP 5.1: P 9: RC 2.5.** Refers to E. C. Gersbach, C. B. Long, C. J. Moody, H. F. Robinson, L. K. Sherman, A. P. Smyth, E. D. Walker.

915 (1) BARAMONA, CLEMENTE MUÑOZ, Care, Braden Copper Co., Rancagua, Chile. (Age 36. Born Santiago, Chile.) March 1912 to April 1914 Draftsman, Chilean Elec. Tramway & Light Co., Ltd., Santiago, Chile, keeping track of new underground and aerial lines, material used and location of same on city map, field and office work. *TT 2: SP 2.* April 1914 to April 1915 Surveyor and mapping, Chilean Army Surveying Dept., Santiago. *TT 1: SP 1.* April 1915 to Jan. 1916 Surveyor and mapping, private engineering work. *TT 0.7: SP 0.7.* Jan. 1916 to Jan. 1917 Field Engr., Société des Mines de Cuivre de Naltagua, El Monte, Chile, surveying, drafting and construction work. *TT 1: P 1: RC 1.* Jan. 1917 to date with Braden Copper Co., Rancagua, Chile, 2½ years as Field Engr. and Draftsman, Pangal Power Plant, instrument work, miscellaneous designs for power plant, revision and checking of P. H. and penstock designs, bending and placing of reinforcing and checking forms for P. H. building, etc.; 3 years Field Engr., Caletones 10 000-ton smelter, laying out construction work, revision and checking of drawings and miscellaneous designs for smelter plant; since July 1922 Asst. Hydr. Engr., Cachapoal Power System, on hydraulic operation, estimates for construction work, design and construction of hydraulic structures.

etc. TT 8.5: P 8.5: RC 5: D 3. TT 13.2: SP 3.7: P 9.5: RC 6: D 3. Refers to C. D. Ashbrook, J. S. Bogardus, H. K. Dimelow, F. Lobos, A. C. Sandstrom, H. D. Stockwell, C. F. Wood, R. B. Worthy.

916 (6) BATTEN, OTHO SMITH, Kenova, W. Va. (Age 29. Born Evans, W. Va.) July 1919 to March 1920 Asst. County Engr., Jackson County Court, Ripley, W. Va., on location and inspection of paving. TT 0.7: SP 0.7. March to Aug. 1920 Transitman, Raleigh County Court, Beckley, W. Va., on preliminary surveys, location and design. TT 0.4: SP 0.4: D 0.1. Aug. 1920 to Jan. 1921 Transitman, Colcord Coal Co., Montcoal, W. Va., outcrop, mine work, plant installation and topographic surveys. TT 0.4: SP 0.4: D 0.2. Jan. to Aug. 1921 Asst. Dist. Engr. on location, construction, inspection and design, and Aug. 1921 to Oct. 1922 Dist. Engr. directing and supervising all construction work, designing of structures and highway, Raleigh County Court. TT 1.8: SP 0.6: P 1.2: RC 1.2: D 0.5. Oct. 1922 to March 1923 Res. Engr., W. Va. State Road Comm., on location, inspection, and supervision of construction. TT 0.4: P 0.4: RC 0.4. March 1923 to date Chf. Engr., Sutton Constr. Co., Ashland, Ky., checking work done by Company, also some design. TT 2.5: P 2.5: RC 2.5: D 1.5. TT 6.2: SP 2.1: P 4.1: RC 4.1: D 2.3. Refers to C. M. Binford, F. C. Colcord, H. J. Grathwol, H. E. Snyder, H. J. Spelman.

917 (12) BOSWORTH, HARLAN PAGE, Jr., Care, California Oregon Power Co., Medford, Ore. (Age 24. Born Buffalo, N. Y.) 1923 C. E., Cornell Univ. July 1923 to date with California Oregon Power Co., until Jan. 1924 as Rodman, Chainman, Draftsman and Computer on survey of water power project in Southern Oregon; since then Asst. in Eng. Dept.; built and conducted experiments on model differential surge tank; also on designs for forebay, intake, wood stave pipe, power house, tailrace, dam, reinforced tunnels, penstocks, etc. TT 4.2: SP 2.5: P 1.7: D 1.7. Refers to F. A. Barnes, E. N. Burrows, J. F. Partridge, J. E. Perry, H. Schneider, L. C. Urquhart, E. G. Waters, J. V. Zahnen.

918 (4) BOWDEN, EDMUND WARREN, 105 Oak Terrace, Merchantville, N. J. (Age 27. Born Camden, N. J.) 1921 C. E., Lehigh Univ. July to Sept. 1917 Rodman and Instrumentman with Lockwood & Green, Engrs. July-Aug. 1919 Instrumentman with Camden County Engr. June to Aug. 1920 Inspector, Stone & Webster Co., on construction of Philadelphia Elec. Co.'s power station at Philadelphia, in charge of water-front work and construction of reinforced concrete coal tower, including pile-driving, dock work, construction of concrete forms, placing and finishing of concrete. TT 2: SP 2. Aug. 1921 to date Jun. Engr. and Asst. Engr., Delaware River Bridge Joint Comm., on construction of suspension bridge (total cost approx. \$37 000 000) connecting Philadelphia, Pa., and Camden, N. J.; work has included extension precise base line surveys, charge of location and layout of foundation and surface structures at New Jersey end of bridge and supervision of construction of pneumatic caissons for river piers; as Asst. to Res. Engr. had charge of sinking pneumatic caissons, construction and sinking of ten anchorage caissons by means of open well dredging, construction of heavy timber falsework, placing of mass and reinforced concrete and granite masonry and of erection of 5 000 tons of structural steel in a 385-ft. tower; Asst. Engr. on spinning and compacting of 30-in. cables, location and erection of suspenders and suspender castings, and on construction of steel and masonry structure of Camden Approach. TT 4.1: P 4.1: RC 2.5. TT 6.1: SP 2: P 4.1: RC 2.5. Refers to C. L. Appleton, S. A. Becker, M. B. Case, R. J. Fogg, H. D. Robinson, S. M. Swaab, G. S. Webster.

919 (15) BOWDEN, NICHOLLS WHITE, Louisiana Highway Comm., Baton Rouge, La. (Age 37. Born Tangipahoa, La.) 1908 B. S. in Civ. Eng., La. State Univ. July 1908 to April 1922 with U. S. Engr. Office, Nashville and Chattanooga, Tenn., on Tennessee River and its tributaries, until June 1911 as Surveyman and Surveyor on survey and drafting work; then Jun. Engr., in local charge of floating plant and forces on river dredging and other improvement work (July 1911 to Oct. 1917); in charge of open channel work preparation of plans, etc. (after Nov. 1917), having supervision of several construction projects at Nashville, in local charge of office (Aug. 1918 to Sept. 1919) and of all open channel and lock and dam maintenance work (Oct. 1919 to April 1922) at Chattanooga. Oct. to Dec. 1920 also on special work, designing marine ways on Tennessee River for Dixie Portland Cement Co., Chattanooga. TT 15.6: SP 5: P 10.6: RC 10.6: D 4.4. May 1922 to Nov. 1924 Asst. Engr., and Dec. 1924 to date Prin. Asst. Engr., Louisiana Highway Comm., Baton Rouge, La., being Asst. and Chf. Asst. to State Highway Engr. in supervising construction and maintenance of highways. TT 3.4: P 3.4: RC 3.4: D 3.4. TT 19: SP 5: P 14: RC 14: D 7.8. Refers to A. M. N. Blamphim, H. C. Fiske, W. R. King, A. B. McGrew, M. Nicholson, B. W. Pegues, J. S. Walker.

920 (1) BOWMAN, WALDO GLEASON, 47 Gramercy Park N., New York City. (Age 25. Born Lawrence, Kans.) 1923 B. S., Univ. of Kans. June to Oct. 1919 Rodman and Time-keeper, Union Pacific R. R., relaying steel and bridge work. June to Sept. 1920 drafting for industrial survey of Kansas cities. June to Sept. 1921 testing materials, reinforcing steel, and concreting materials for State of Kansas. June to Sept. 1922 surveying and inspecting on stadium construction, O'Neill Constr. Co., Leavenworth, Kans. TT 2: SP 2. June 1923 to Oct. 1924 drafting, design and erection of structural steel, mostly towers and tanks, Chicago Bridge & Iron Works. TT 1.3: SP 0.6: P 0.7: RC 0.2. Dec. 1924 to April 1925 Draftsman on structural steelwork for buildings, Boston Bridge Works. TT 0.3: SP 0.3. April 1925 to date Editorial Asst., *Engineering News Record*, McGraw-Hill Co., New York City. TT 0.5: P 0.5: RC 0.5. TT 4.1: SP 2.9: P 1.2: RC 0.7. Refers to G. T. Horton, H. A. Rice, F. E. Schmitt, F. C. Wight, C. C. Williams.

921 (9) BRITTON, WILLIAM ROTHROCK, Knightstown, Ind. (Age 39. Born Monticello, Ind.) Prof. Engr., State of Indiana. 1914 B. S. in Civ. Eng., Purdue Univ. June to Sept. of years 1911 and 1912 Engr. on hydraulic work, dam construction, power house, turbine and concrete dam, levee work, Haywood Constr. Co., Chicago, Ill. June to Sept. 1913 Asst. on Engr. Corps, on Indianapolis Terminal R. R. Yard work, new freight house construction, Pittsburgh, Cincinnati, Chicago & St. Louis Ry. TT 2: SP 2. June 1914 to March 1916 Asst. on Engr. Corps, road work, structure design, arch and slab work, design, Drainage Engr., Cleveland, Cincinnati, Chicago & St. Louis Ry. TT 1.5: P 1.5: RC 1.5: D 0.7. March 1916 to Jan. 1919 Res. Engr., charge construction of 15 miles new grade; July 1916 became Asst. Engr. in charge of construction of 41 miles of new grade (average for 25 miles 30 ft.) reinforced concrete girder, slab and steel structures, P. C., C. & St. L. Ry. TT 2.8: P 2.8: RC 2.8: D 2.8. Jan. 1919 to date with Indiana State Highway Comm., until Dec. 1919 as Project Engr., concrete road and reinforced concrete structures, also steel; from Dec. 1919 to June 1925 Res. Engr.; since then Asst. Engr. on bridge construction, in charge on new structures, also concrete pavements, surveys for new structures. TT 6.7: P 6.7: RC 6.7: D 1.7. TT 1.3: SP 2: P 11: RC 11: D 5.2. Refers to J. T. Hallett, A. H. Hinkle, F. Kellam, H. S. Marshall, W. J. Titus.

922 (1) CARLSTEDT, HARALD, 132 Dickerson St., Newark, N. J. (Age 47. Born Oscarshamn, Sweden.) 1900 C. E., Boras Tech. Coll., Sweden. 1902 to 1914 Instrumentman, Draftsman, Chf. Draftsman and Constr. Engr. on construction of steel mills, U. S. Steel Corporation, at South Chicago, Ill., and Buffington and Gary, Ind. TT 14: SP 4: P 10: RC 4: D 6. 1915 to 1917 Chf. Engr. in charge of maintenance of plants and new construction, Rome (N. Y.) Brass & Copper Co. TT 2: P 2: RC 2. 1917 to 1918 on war work. 1919 to 1920 Res. Engr., Lockwood, Greene & Co., Engrs., New York City, in charge of construction of power plants and industrial buildings. TT 1: P 1: RC 1. 1920 to 1922 Constr. Supt., Eustice Bros., Engrs. and Contrs., Newark, N. J., on industrial plants and buildings. TT 2: P 2: RC 2. 1922 to 1924 Supt. of Constr. on water-works, sewage disposal, etc., with Nicholas S. Hill, Jr., Cons. and Constr. Engr., New York City. TT 2: P 2: RC 2. 1925 to date Constr. Supt. on water-works and water supply, Carlo Petrillo Co., Inc., Mt. Vernon, N. Y. TT 0.7: P 0.7: RC 0.7. TT 21.7: SP 4: P 17.7: RC 11.7: D 6. Refers to J. N. Brooks, H. H. Chase, E. W. Clarke, J. R. Forsyth, N. S. Hill, Jr., A. T. Ricketts.

923 (9) COLVIN, CHARLES MUSICK, Armco Culvert Association, Middletown, Ohio. (Age 34. Born Audrain County, Mo.) 1916 C. E., Univ. of Mo. March 1916 to July 1917 Instrumentman, Rock Island Lines, in charge of party on engineering work for ballasting and steel, also in charge of earthwork, and May 1919 to Jan. 1920 on same work, in charge of earthwork. TT 4.1: RC 1.7. July 1917 to May 1919 1st Sergeant and Sergeant, 1st class, F Co., 110th Engrs., 35th Div., A. E. F. TT 1.8. Jan. 1920 to Feb. 1921 Instrumentman, acted as Asst. Engr., Minnesota Div., R. I. Lines, Manly, Iowa, in charge of engineering maintenance and field work. TT 1.1: RC 1.1. March 1921 to June 1922 Chf. of Party, Iowa Highway Comm., on preliminary and location surveys of over 150 miles of State highway. TT 1.3: RC 1.3. June 1922 to July 1924 Estimator and Designer, Conley Frog & Switch Co., Memphis, Tenn., estimating for frog and switch material, crossing computations, cost and efficiency records and one-half of crossing designing. TT 2.1: D 1. July 1924 to date Engr., Costs, Armco Culvert & Flume Mfrs. Association, Middletown, Ohio, formulating research program for investigation of culvert durability as basis for economic comparison of culvert types. TT 1.2: RC 1.2: D 1.2. TT 11.6: RC 5.3: D 2.2. Refers to T. R. Agg, G. F. Daggett, W. E. Jones, Jr., H. T. Livingston, C. L. McKesson, A. C. Norton, E. M. Stayton, R. R. Zack.

924 (1) COULCHER, GEORGE EDWIN BOHUN, Harbour Works, Lagos, Nigeria, West Africa. (Age 46. Born Lympne, Kent, England.) 1898 graduated, Crystal Palace School of Practical Eng., London, England. 1898 to 1899 served pupillage under Chf. Engr. to Isle of Man Harbour Comms.; part of time acted as Deputy Inspector on construction of new timber extension to Ramsey Pier. TT 1.2: SP 1.2. 1900 to 1905 with S. Pearson & Sons, Ltd., until 1904 as Asst. Contr.'s Engr. and Sub-Agt. on railway construction in Ireland; assisted in redesign of nearly all bridges on 15 miles of railway and had charge of setting out of center line for laying permanent way; after 1904 Asst. Contr.'s Engr. on construction of Queen's Branch Docks at Liverpool, construction of large wet and dry docks and erection of large double-story transit sheds. TT 5.4: P 5.4: RC 1. 1905 to 1908 Contr.'s Engr. Robert McAlpine & Sons, on harbor works at Peterhead, Scotland, in charge of civil engineering in connection with deepening old basins, rebuilding quay walls, underpinning, construction of pier extension in concrete block work, rock excavation and dredging. TT 2.8: P 2.8: RC 2.8. 1908 to 1913 Res. Engr. to Wick and Pulteney Harbour Trustees in charge of harbor improvements at Wick, construction of breakwaters and quay walls in mass concrete founded below water, underpinning walls below water, rock excavation and dredging, design of subsidiary works, etc. TT 5: P 5: RC 5. 1913 to 1915 Res. Engr. to Buckie Town Council, Scotland, in charge of harbor works, including large breakwater and new quay walls and jetties in concrete block work, underpinning, etc.; also designed and carried out other work. TT 2.5: P 2.5: RC 2.5. 1915 to 1919 Lieut., Royal Engrs., active service in France, narrow-gauge railways, roads, quarry work. TT 4: SP 4. 1919 to 1922 with Robert McAlpine & Sons, 1½ years as Contr.'s Agt. at Ellesmere Port, Cheshire, in charge of construction of new roads and railways, and a cast-iron lined tunnel below Manchester Ship Canal; over one-half year assisting in Manchester office on preparation of claims and in making up tenders for various works. TT 2.2: P 2.2: RC 1.6. 1922 to date with Crown Agts. to the Colonies as Deputy Res. Engr. and, part of time, Acting Res. Engr. on harbor works at Lagos, Nigeria, in charge of extension and maintenance of outer rubble moles, erection of large screw pile wharf and construction of heavy quay wall in sloping concrete block work, large double-story reinforced concrete transit sheds, etc. TT 3.4: P 3.4: RC 3.4. TT 26.5: SP 5.2: P 21.3: RC 16.3. Refers to F. F. Fergusson. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

925 (1) D'AMATO, NUNZIO, 9 Catherine St., New York City. (Age 26. Born Comiso, Italy.) 1923 C. E., Univ. Polytechnico of Turin, Italy. Aug. 1923 to Jan. 1924 Asst. Engr. with Mr. Costantini, Civ. Engr., Turin, Italy. TT 2.5: SP 2.5. April-July 1924 with W. S. Lozier, Civ. Engr., Rochester, N. Y., in survey party. TT 0.3: SP 0.3. Feb. to Sept. 1925 Draftsman and Asst. Engr., George R. Newell Corporation, Rochester, on sewers and water-works. TT 0.6: SP 0.6. TT 3.4: SP 3.4. Refers to G. P. Hevenor, W. S. Lozier, L. Luiggi, P. F. Stephens, J. P. Wells.

926 (7) DODGE, RUSSELL ALGER, 333 E. Huron St., Ann Arbor, Mich. (Age 31. Born Whitmore Lake, Mich.) 1916 B. S., and 1918 M. S., Civ. Eng., Univ. of Mich. June to Oct. 1916 Designer on reinforced concrete and Instrumentman with City Engr., Ann Arbor, Mich. TT 2.3: SP 2.3. Oct. 1916-June 1918 Teaching Asst. in Civ. Eng. and (June to Aug. 1917) in surveying at Summer Camp, Univ. of Michigan, hydraulic research, teaching, graduate study. TT 1.8: SP 1.8. June to Nov. 1918 Private and 2d Lieut., Coast Artillery, U. S. Army. TT 0.3: SP 0.3. Jan. to Dec. 1919 Jun. Draftsman and Chf. of Party, U. S. Reclamation Service, El Paso, Tex., computing right-of-way, designing timber structures, locating drains and canals. TT 0.9: P 0.9: D 0.9. Jan. to Feb. 1920 with M. E. Cooley, on Detroit United Ry. appraisal. TT 0.1: P 0.1. Feb. to Oct. 1920 with Consumers Power Co., Jackson, Mich., mostly steam plant work. TT 0.7: P 0.7: D 0.6. Nov. 1920-July 1921 with M. E. Cooley, on appraisal of Consumers Power Co. properties. TT 0.7: P 0.7. Sept. 1921 to date Instructor and at present Asst. Prof. of Eng. Mechanics, Univ. of Michigan; also (independently) made numerous surveys, sewer and stream gaugings, pump tests, testimony in stream pollution case; since Sept. 1923 also in responsible and independent charge of surveys, design and (at present) construction of Allen's Creek Drain (estimated cost about \$660 000). TT 4.1: P 4.1: RC 2.1: D 1. TT 10.9: SP 4.4: P 6.5: RC 2.1: D 2.1. Refers to C. T. Johnston, F. N. Menefee, F. A. Nagler, H. E. Riggs, R. S. Swinton, J. A. Van Den Brook.

927 (10) FORESTER, DON MONTELL, Belzoni, Miss. (Age 34. Born Belleaire, Ill.) 1914 B. S. in C. E., Ga. School Tech. July to Dec. 1914 and Aug. 1916 to May 1917 Jun. Engr., Illinois Highway Dept., first 6 months on pavement construction and after Aug. 1916 on bridge design and construction. TT 3.3 SP 2: P 1.3: RC 1.3. Jan. to Nov. 1915 Asst. Engr., Cuyamel (Honduras) Fruit Co., on railway and drainage location and construction.

TT 0.9: P 0.9: RC 0.5. Nov. 1915 to Aug. 1916 Jun. Engr., Interstate Commerce Comm., field valuation of common carrier property. TT 0.7: P 0.7. May 1917 to July 1919 2d Lieut., 1st Lieut. and Capt., Engrs., U. S. Army, military engineering. TT 2.2: P 2.2: RC 2.2. July 1919 to March 1922 Cons. Highway Engr., locating, designing and constructing highways and allied work in northwest section of Mississippi. TT 2.7: P 2.7: RC 2.7: D 2.7. March 1922 to date City Engr., Belzoni, Miss., in charge of engineering, including design and construction of power plant, water-works, pavement, sewers, etc. TT 3.6: P 3.6: RC 3.6: D 3.6. TT 13.4: SP 2: P 11.4: RC 10.3: D 6.3. Refers to R. L. Bell, T. L. Bell, Jr., E. H. Coleman, C. E. Downing, B. H. Graham, B. M. Hall, Jr., J. R. Slattery, R. S. Thomas.

928 (6) FROST, MAURICE BAYARD, Y. M. C. A., New Castle, Pa. (Age 22. Born Saco, Me.) 1925 S. B., Mass. Inst. Tech. June to Oct. 1924 Draftsman and Instrumentman with Wm. Parker, Wayne County Surveyor, Detroit, drafting and laying out real-estate subdivisions. June to Sept. 1925 Draftsman, Pennsylvania State Highway Dept., Wellsboro, Pa., computing earthwork, plotting of line, topography and line profile, computation of curves, line shifts, etc. TT 2.2: SP 2.2. Refers to J. B. Babcock, Ed., H. K. Barrows, H. L. Bowman, C. B. Breed, W. M. Fife, C. M. Spofford, C. H. Sutherland.

929 (4) GLUCKERT, WILLIAM JOHN, Jr., 1048 South Paxton St., Philadelphia, Pa. (Age 21. Born Bensonhurst, N. Y.) Student, in Civ. Eng., Univ. of Pennsylvania (Sept. 1922 to June 1923) and in Civ. (Mun.) Eng., Drexel Inst. Evening School (Sept. 1923 to date). TT 0.3: SP 0.3. May 1923 to May 1925 with Bureau of Surveys, Philadelphia, Pa., successively as Chainman, Rodman, and Transitman acting as Instrumentman, and on plans and calculations. TT 2.2: SP 2.2. May 1925 to date Chf. of Party, Franklin & Co., Civ. and Cons. Engrs., on surveys, grading, sewers and general office work. TT 0.3: P 0.3: RC 0.3. TT 2.5: SP 2.2: P 0.2: RC 0.3. Refers to T. Buckley, B. Franklin, A. Z. Hoffman, A. R. Lindsey, A. G. Singer.

930 (3) GORE, WILLIAM, 625 Confederation Life Bldg., Toronto, Ont., Canada. (Age 54. Born Kings Lynn, England.) 1896 Assoc., Central Tech. Coll. of City and Guilds of London Inst. March 1888 to March 1892 Apprentice, and March 1892 to Sept. 1893 Asst. Engr., Highgate Ironworks, Kings Lynn, England, in works and field, on steam engines, boilers, water tanks, dock furnishings, agricultural machinery and millwright work, bridges. TT 5.5: SP 5.2: P 0.3: RC 0.3. July 1896 to Jan. 1897 Chf. Draftsman, Fowler Waring Cables Co., North Woolwich, England, design of electric cables, junction boxes and cable-making machinery. TT 0.5: P 0.5: RC 0.5: D 0.5. Jan. 1897 to Jan. 1902 Asst. Engr. to George F. Deacon, Cons. Civ. Engr., London, England, and Jan. 1902 to May 1912 Asst. Chf. Engr. to George F. Deacon and his successors, Alexander Binnie, Son & Deacon, design and supervision, including surveying, court and parliamentary work, on water supply works, including Birkenhead water supply (\$7 000 000), Merthyr-Tydfil water supply (\$3 500 000), Liverpool water supply maintenance, Manchester storm sewers (\$2 500 000), and Baker St. & Waterloo Tube Ry., supervision of tunnelling. TT 15.4: SP 5: P 10.4: RC 5.2: D 10.2. May 1912 to Oct. 1919 Cons. Engr., John ver Mehr Eng. Co., London and Toronto, manufacturers of drifting sand filters, including Merthyr-Tydfil (\$20 000), Bagdad (\$100 000), Recife (\$100 000), Toronto (\$1 100 000), Oshawa (\$50 000) and Brampton (\$12 000). TT 7.5: P 7.5: RC 8.5: D 4. Oct. 1919 to date Cons. Engr., Gore, Nasmith & Storries, Toronto, Ont., Canada, water supply and sewage-disposal works, including Oshawa sewers (\$300 000), Hamilton proposed sewage disposal and water supply (\$2 000 000), Toronto proposed duplicate water-works (\$14 000 000), city dairy, Toronto (\$250 000) and Port Credit water supply (\$180 000). TT 6: P 6: RC 3: D 3. TT 34.9: SP 10.2: P 24.7: RC 12.5: D 17.7. Refers to H. G. Acres, G. W. Fuller, P. Hansen, A. H. Harkness, G. A. McCarthy, C. H. Mitchell, H. S. Phillips, R. O. Wynne-Roberts.

931 (9) MANLY, HUNTER WARDLAW, 4915 Pine St., Norwood, Ohio. (Age 45. Born Shelbina, Mo.) 1904 B. S. in M. E., and 1906 M. E., Univ. of Cin. Sept. 1901 to June 1906 teaching, Univ. of Cincinnati, Technical School, and Eng. Coll. (intermittently). TT 4: RC 4. June 1906 to Dec. 1917 with L. E. Concrete Steel Co., Contra, Cincinnati, Ohio, as Field Engr., Designer, Constr. Supt., Estimator and Chf. Engr., on engineering construction, including industrial and institutional buildings, reservoirs, water-works, bridge piers, and design and construction of concrete, structural steel, timber, masonry and earth work. TT 11.5: RC 10: D 8. Jan. 1918 to Oct. 1919 with U. S. Army; Aug. 1917 commissioned Capt., Engr. Reserve Corps and May 1919 Major, Transportation Corps; with 46th Engrs. (April to Dec. 1918) and 15th Gr. Div., Transportation Corps (Dec. 1918 to Aug. 1919). TT 1.8: RC 1.4.

May 1920 to date Cons. Engr. Euphrat-Hanly Estimating and Eng. Bureau, Cincinnati, structural engineering and quantity surveys. TT 5.8: RC 5.3: D 5.3. TT 22.6: RC 18.7: D 13.3. Refers to H. D. Loring, C. N. Miller, R. R. Panzer, F. L. Raschig, H. Schneider.

932 (15) HARRIS, JEFFERSON DAVIS, Southern Pacific de Mexico, Mazatlan, Sinaloa, Mexico. (Age 34. Born Mathis, Tex.) 1912 graduated, Texas Agricultural and Mechanical Coll. 1908 to 1910 Chf. Engr., Rock Map Co., Houston, Tex., designing, mapping and subdivision work (2 years); Draftsman, designing and plotting, Asst. Engr. in charge of field party locating pipe-line, right-of-way, etc., Humble Oil Co. (1 year). TT 3: SP 3. 1912 to 1914 City Engr., Brownsville, Tex., sewerage (storm and sanitary), levees, street, subdivision and general city work. TT 2: P 2: RC 2. 1914 to 1916 Draftsman, maintenance-of-way drafting, designing and general engineering office work, such as computing, etc., St. Louis, Brownsville & Mexico Ry. TT 1.5: P 1.5: D 1.5. 1916 to 1918 Chf. Engr., Simms Oil Co., Houston, Tex., and Shreveport, La., in charge of engineering construction, etc. TT 2.5: P 2.5: RC 2.5. 1921 to 1922 Draftsman and Computer, P. E. Ry., designing, computing and Gen. M. of W. Engr. TT 1.1: P 1.1: D 1.1. 1922 to 1923 City Engr., Burbank, Cal., street, sewer, and other engineering work. TT 0.6: P 0.6: RC 0.6. 1923 Draftsman and Checker in City Engr.'s office, Glendale, Cal., designing and checking plans and specifications. TT 0.8: P 0.8: D 0.8. Sept. 1923 to date with Southern Pacific de Mexico, until March 1924 as Draftsman, general office, designing, computing and general office work in Asst. Chf. Engr.'s office; then (6 months) drafting and field work, designing bridges, culverts, and maintenance-of-way work, field work, setting bridge seats, location, etc.; since Sept. 1924 Asst. Engr., maintenance-of-way work, location, construction, etc. TT 2: P 2: RC 1: D 1. TT 13.5: SP 3: P 10.5: RC 6.6: D 4.4. Refers to C. K. Bowen, C. E. Cate, B. F. Dupuy, C. D. Evans, C. F. Leue, J. C. McVea, R. B. Ray.

933 (14) HASELTINE, THEODORE RAYMOND, 3704 Main St., Kansas City, Mo. (Age 24. Born Aurora, Ill.) 1925 A. B. in Civ. Eng., Leland Stanford, Jr., Univ., July to Oct. 1922 Rodman, Clear Lake Co. June to Oct. 1923 Chainman and Instrumentman, California & Hawaiian Sugar Refinery Co. July to Oct. 1924 Chainman and Topographer, Southern Pacific R. R. July to Sept. 1925 Jun. Engr., Burns & McDonnell Eng. Co., surveying, drafting and estimating. TT 2.2: SP 2.2. Refers to R. E. McDonnell, C. K. Mathews, L. B. Reynolds, C. S. Timanus, C. B. Wing.

934 (13) HASSEN MILLER, WILFORD SOWLE, 1259 Fifth Ave., San Francisco, Cal. (Age 35. Born Louisville, Ky.) 3 years student in Civ. Eng., Purdue Univ. June 1912 to Jan. 1913 Field Draftsman, Canadian Pacific Ry. Co., at Kamloops, B. C., on grade revision, double-tracking and new line and tunnels. TT 1.5: SP 1.5: P 0.5. Feb. to Dec. 1913 Structural Draftsman, office and mill building details, J. Coughlan & Sons, Vancouver, B. C., Canada. TT 1: SP 0.5: P 0.5. Feb. 1914 to June 1915 various work on all types of structural steel frames, wooden structures, mechanical and oil refinery layouts, Union Oil Co. of California. TT 1.5: SP 0.4: P 1.1. Sept. 1915 to April 1916 detailing structural steel, Beilefontaine (Ohio) Bridge & Steel Co. TT 0.6: P 0.6. April 1916 to Sept. 1921 detailing and checking structural steel for office and mill buildings, elevated railways, etc., American Bridge Co., Ambridge Plants. TT 5.4: SP 5.4. Oct. 1921 to July 1922 checking structural steel office building, theatres, etc., Russel Wheel and Foundry, Detroit, Mich. TT 0.9: P 0.9. April to July 1923 detailing, checking structural steel for office and mill buildings, with E. O. Burgess, San Francisco, Cal. TT 0.3: P 0.3. July 1923 to July 1925 estimating, design, checking, general supervision of all classes of structural steel office and mill buildings, small bridges, plate and railroad work, Pacific Rolling Mill Co., San Francisco. TT 2: P 2: RC 2. TT 13.2: SP 1.9: P 11.3: RC 2. Refers to E. O. Burgess, F. W. Dencer, J. R. Fox, R. G. Manning, G. F. Sparhawk.

935 (11) HORNER, ARTHUR STEWART, 2324 Grape St., Denver, Colo. (Age 29. Born Topeka, Kans.) 1922 B. S. (C. E.), Univ. of Colo. Aug. 1916 to April 1917 Timekeeper and Material Checker with H. C. Horner, Bldg. Contr., Denver, Colo. TT 2.7: SP 2.7. April 1917 to Jan. 1918 Rodman and Inspector on construction of coach yard, Atchison, Topeka & Santa Fe Ry. Co. TT 0.7: SP 0.7. Oct. 1918 to Jan. 1919 Transitman on preliminary survey of Riverton Project, U. S. Reclamation Service. TT 0.8: SP 0.3. June 1922 to May 1923 with H. S. Crocker, Cons. Engr., Denver, as Transitman and Inspector on construction of Broadway Viaduct. TT 0.9: SP 0.9. May to Dec. 1923 general supervision of house construction, Horner Constr. Co. TT 0.6: P 0.6: RC 0.6. Jan. to March 1924 Bldg. Inspector on completion of construction of shops at Salida, Colo., Denver & Rio Grande Western Ry. Co. TT 0.2: SP 0.2. April 1924 to date with Dutton & Kendall Co., Contrs., as Estimator (3 months), and Field Engr. on construction of Marston Lake Filtration Plant for City and

932 (1) INSTRUMENTMAN and CONCRETE INSPECTOR, 1907 B. S. in C. E., Univ. of Ill. June to Sept. 1905 Rodman and Concrete Inspector, and June to Sept. 1906 Instrumentman and Concrete Inspector, Penn. Ry. Co., Indianapolis, Ind. TT 2: SP 2. June to Sept. 1907 City Engr., Urbana, Ill. TT 0.2: P 0.2. Sept. to Nov. 1907 teaching civil engineering, Agricultural and Mechanical Coll., Stillwater, Okla. TT 0.2: P 0.2. Nov. 1907 to April 1908 field and office work for Earle & Greene, Cons. Engrs., Muskogee, Okla. TT 0.4: P 0.4. April 1908 to June 1910 City Engr., Muskogee, paving, water-works, sewers, etc. TT 2: P 2: RC 2. June 1910 to June 1911 general contracting, sidewalks, sewers, brick pavement, Enid, Okla. TT 1: P 1: RC 1. 1911 to 1919 developed swamp land along Illinois River. not much engineering work. 1920 to date

936 (1) IMMERMAN, HARRY TREADWELL, 712 West 175th St., New York City. (Age 35. Born New York City.) 1913 C. E., School of Mines, Columbia Univ. June 1911 to July 1912 Transitman, Holbrook, Cabot & Rollins Corporation, on drydock construction, etc. TT 3.1: SP 3.1. July to Nov. 1913 Inspector, Board of Water Supply, on construction of Catskill Aqueduct. TT 0.4: SP 0.4. Jan. to June 1914 Chf. Engr. for J. A. Zimmermann, on construction of reinforced concrete stadium for Coll. of City of New York, in charge of three field parties. TT 0.5: P 0.5: RC 0.5. July to Dec. 1914 Engr., Underpinning & Foundation Co., on foundation work in New York City. TT 0.5: P 0.5: RC 0.5. Jan. 1915 to Aug. 1917 Engr., Holbrook, Cabot & Rollins Corporation, on subway construction at Times Sq., New York City; designed and supervised erection of plant, yards, temporary decking and underpinning of buildings on 7th Ave.; in charge of all steel erection. TT 2.7: P 2.7: RC 1.5: D 1.2. Aug. 1917 to March 1919 1st Lieut. and Capt., C. A. C. U. S. Army, 1½ years in France; at Front as Orienteer Officer, 1st Bn., 65th Art., C. A. C. May 1919 to June 1921 Chf. Engr., Kew Gardens Corporation, at Kew Gardens, N. Y., in charge of development work, streets, sewers, roads, city surveying, foundations, etc. TT 2.2: P 2.2: RC 2.2. July 1921 to May 1923 Chf. Engr. and Secy., Kerr Elevator Equipment Corporation, Philadelphia, Pa., designing pneumatic door control and interlocking systems, freight elevator doors and hatchways; supervision of installation of same. TT 1.8: P 1.8: RC 1: D 0.8. June 1923 to date Chf. Designing Engr., Spencer, White & Prentis, Inc., Foundation Contrs., design of foundations for approx. one hundred buildings, mostly tall structures. TT 2.3: P 2.3: RC 0.8: D 1.5. TT 15.5: SP 3.5: P 10: RC 6.5: D 3.5. Refers to G. H. Clark, W. G. Federlein, H. M. Hale, E. A. Prentis, Jr., R. Smillie, D. B. Steinman, L. White.

937 (2) JACOBSON, GUSTAF WALTER, 138 Belmont St., Worcester, Mass. (Age 30. Born Worcester, Mass.) Oct. 1913 to April 1918 Structural Draftsman, Edward F. Miner Bldg. Co. TT 4.5: SP 4: P 0.5. Sept. 1919 to date Structural Engr. with Cutting, Carleton & Cutting, Archts., on design and supervision of structures of wood, steel and reinforced concrete. TT 6: P 6: RC 3: D 3. TT 10.5: SP 4: P 6.5: RC 3: D 3. Refers to A. W. French, W. H. Lund, J. B. Lowell, S. Lund, E. F. Miner.

938 (3) JOHNSON, REX PHILLIPS, 1531 Queen St. West, Toronto, Ont., Canada. (Age 33. Born Toronto, Ont., Canada.) 1914 B. A. Sc., Civ. Eng. course, Univ. of Toronto. Summer vacations Rodman, Canadian Northern Ry. (1909) and City of Toronto (1910 and 1911), Instrumentman, Niagara, St. Catharines & Toronto Ry. (1912) and Draftsman, Canadian Dept. of Rys. and Canals (1913). TT 2: SP 2. 1914 to 1916 Designing Draftsman, New Welland Ship Canal, St. Catharines, Ont., Canada, Canadian Dept. of Rys. and Canals; Designer on permanent structures of concrete and steel. TT 2.7: P 2.7. 1916 to 1922 with Hydro-Elec. Power Comm. of Ontario, at Niagara Falls, on Queenston-Chippawa Power development, 1 year as Designing Draftsman, 1½ years Chf. Draftsman in Canal Constr. Office, and 3 years Office Engr. in same office managing designing and drafting staff on construction of \$75 000 000 water-power development. TT 5.5: P 5.5: RC 3. 1922 to 1923 member of firm, Heaton-Kortright & Co., Industrial Engrs., Toronto, on factory production, cost-finding and statistical investigations for other firms. TT 1.5: P 1.5. 1923 to 1924 Instructor in Structural Design to fourth year students at Univ. of Toronto, Faculty of Applied Sci. and Eng. TT 0.6: P 0.5. April to June 1924 Structural Steel Checker, Wm. B. Pollock Co., Youngstown, Ohio. TT 0.3: P 0.3. 1924 to 1925 Factory Mgr. and Cost Accountant, The Pure Gold Mfg. Co., Toronto, manufacturing food products. TT 1.3: P 1.3: RC 1.3. TT 13.9: SP 2: P 11.9: RC 4.3. Refers to H. G. Acres, J. B. Goodwin, R. L. Hearn, J. R. Montague, W. Snaith.

939 (8) KINSEY, LEON BROWNING, 905 So. 6th St., Pekin, Ill. (Age 45. Born Mackinaw, Ill.) 1907 B. S. in C. E., Univ. of Ill. June to Sept. 1905 Rodman and Concrete Inspector, and June to Sept. 1906 Instrumentman and Concrete Inspector, Penn. Ry. Co., Indianapolis, Ind. TT 2: SP 2. June to Sept. 1907 City Engr., Urbana, Ill. TT 0.2: P 0.2. Sept. to Nov. 1907 teaching civil engineering, Agricultural and Mechanical Coll., Stillwater, Okla. TT 0.2: P 0.2. Nov. 1907 to April 1908 field and office work for Earle & Greene, Cons. Engrs., Muskogee, Okla. TT 0.4: P 0.4. April 1908 to June 1910 City Engr., Muskogee, paving, water-works, sewers, etc. TT 2: P 2: RC 2. June 1910 to June 1911 general contracting, sidewalks, sewers, brick pavement, Enid, Okla. TT 1: P 1: RC 1. 1911 to 1919 developed swamp land along Illinois River. not much engineering work. 1920 to date

member of firm, Kinsey Eng. Co., drainage work along Illinois River and municipal work for small cities. TT 5: P 5: RC 5. TT 10.9: SP 2: P 8.9: RC 8: D 5. Refers to I. O. Baker, G. R. Bascom, T. P. Clonts, B. H. Colby, F. Z. Horton, C. C. Williams.

940 (11) LOHMAN, FRED STILES, 229 1/4 So. Bonnie Brae St., Los Angeles, Cal. (Age 21. Born Los Angeles, Cal.) 1925 B. S., Coll. of Civ. Eng., Univ. of Cal. July to Sept. of years 1921 and 1922 Chainman, Eng. Dept., Los Angeles, Cal. July to Sept. 1923 Chainman with H. Y. Gibson, Los Angeles. TT 2: SP 2. Refers to R. E. Davis, C. Derleth, Jr., B. A. Etcheverry, C. G. Hyde, G. E. Troxell, P. A. Swafford.

941 (15) McCASHIN, CLARENCE EUGENE, Box V, Capitol Station, Austin, Tex. (Age 38. Born Austin, Tex.) 1911 C. E., Univ. of Tex. July to Oct. 1907 Transitman and Levelman, and June to Aug. 1908 Transitman on railroad work in Texas. TT 2: SP 2. June 1910 to Jan. 1911 architectural drafting, design, supervision of construction, perspective work, M. E. Tracy, Houston, Tex. TT 0.6: RC 0.4: D 0.6. Feb. to May 1911 Park Engr., City of Austin, on designs and estimates for city park. TT 0.8: RC 0.8: D 0.8. May 1911 to Dec. 1912 Field Asst. Engr. on preliminaries and construction, Medina Irrigation Co., dams and canals; Medina Valley Irrigation Co. (F. S. Pierson Eng. Co.), topographic maps, canal location, design, estimates, specifications, and distribution of materials. TT 1.6: RC 0.7: D 0.2, Dec. 1912 to Sept. 1913 Asst. Engr., Austin Dam Project, with Lamar Lyndon and Frank S. Taylor, drafting, design, line and grade, inspection on dam, and in charge of construction of reinforced concrete reservoir. TT 0.7: RC 0.7: D 0.4. Sept. to Nov. 1913 Advisory Engr. with R. W. Harlock, on design and supervision of preliminaries for reinforced concrete reservoir for Navasota, Tex. TT 0.2: RC 0.2: D 0.2. Nov. 1913 to Feb. 1914 Asst. Engr., with Manton Hannah, Lamar County Highways, Paris, Tex., on line and grade and supervision of construction of roads, design and perspective drafting of causeway. TT 0.8: RC 0.8: D 0.1. April to Sept. 1914 Asst. Engr. with Lamar Lyndon and Frank S. Taylor, on inspection of Austin Dam, compiling data for power and irrigation reports, architectural design, reinforced concrete design, writing specifications and contracts and supervision of construction. TT 0.4: RC 0.4: D 0.3. Sept. 1914 to Nov. 1915 Res. and Directing Engr., Frank S. Taylor Eng. Co., on design and supervision of construction of reinforced concrete dam at Gonzales, Tex. TT 1.2: RC 1.2: D 0.6. Nov. 1915 to Feb. 1916 Res. and Directing Engr. and Supt. of Constr. on this dam, Frank S. Taylor Eng. Co. and Gonzales Texas Water Power Co., complete charge of engineering and construction of dam, and Feb. to Nov. 1916 Res. and Directing Engr. on this work. TT 1: RC 1: D 0.4. Nov. 1916 to June 1917 Engr., Frank S. Taylor Eng. Co., consulting engineering work on irrigation and power reports, valuations, design, field work supervision and drafting. June to Nov. 1917 Engr. with Lyndon & Taylor, Cons. Engrs., and Nov. 1917 to Feb. 1918 in charge of Southwestern office of Lyndon, Taylor & Perrilliat, Cons. Engrs., on same work. TT 1.2: RC 1.2: D 0.7. Feb. to Sept. 1918 Hydrographer, Texas Board of Water Engrs. and U. S. Geological Survey, on design and installation of concrete and wood recorder gaugings stations and cableways, stream measurement work and water power report on Austin Dam. TT 0.6: RC 0.2: D 0.1. Sept. 1918 to Sept. 1923 Engr., Sept. 1923 to Aug. 1925 Hydr. Engr., and Aug. 1925 to date Associate Engr., U. S. Geological Survey, gathering stream flow data, study of duty of water for rice, writing manuscript for water supply papers, supervision of office force and field forces in gathering similar data and data for flood prevention. TT 7: RC 6.5: D 0.6. TT 15: RC 13.2: D 4.3. Refers to E. P. Arneson, C. S. Clark, A. H. Dunlap, C. E. Ellsworth, N. C. Grover, J. B. Hawley, J. C. Nagle, J. A. Norris, A. P. Rollins.

942 (13) MEADOWCROFT, ALLAN JAMES, Box 1134, Stanford University, Cal. (Age 23. Born Wellington, New Zealand.) Oct. 1920 to April 1921 Chainman, Modesto Irrigation Dist. TT 0.5: SP 0.5. April to Dec. 1921 Chainman, and Dec. 1921 to Sept. 1922 Instrumentman, Turlock and Modesto Irrigation Dists., on Don Pedro Dam construction. TT 1.4: SP 1.4. Oct. 1922 to June 1925 Student, Civ. Eng., Stanford Univ. TT 1: SP 1. June to Sept. 1923 Instrumentman, American Toll Bridge Co., on preliminary surveys for Carquinez Highway Bridge. TT 0.8: SP 0.8. July to Sept. 1924 Chf. of Party, Merced Irrigation Dist., on estimates for construction of irrigation canals. TT 0.8: SP 0.8. July to Aug. 1925 Chf. of Party, Oakdale Irrigation Dist., in charge of layout of Melones Dam. TT 0.2: SP 0.2. TT 3.7: SP 3.7. Refers to D. H. Duncanson, J. C. L. Fish, D. R. McFarland, C. Moser, A. J. Wiley, C. B. Wing.

943 (3) MIFFLIN, WILLIAM BIDDLE, 704 Journal Bldg., Albany, N. Y. (Age 32. Born Clayton, N. Y.) 1924 C. E., Cornell Univ. July-Sept. 1917 Chainman and Rodman, and Aug. to Oct. 1919 Rodman, New York Central R. R. TT 2.2: SP 2.2. Aug.-Dec. 1923 Instrumentman, Chf. of Party, surveys, topography, office of City Engr., Oneonta, N. Y. Jan. to

Sept. 1924 Instrumentman and (at times) Chf. of Party, laying out new railroad construction, bridge foundations for concrete piers, steel plate girders, etc., running curves, etc., Hudson River Connecting R. R. Corporation. TT 0.6: SP 0.6. Sept. 1924 to Jan. 1925 Instrumentman, Chf. of Party, topography, rerunning property lines, establishing monuments, lines and grades for buildings, hydraulic fill, computing earthwork, estimates for contracts, Concrete Inspector, Constr. Dept., Standard Oil Co. of New York, Albany, N. Y. TT 0.8: SP 0.8. Jan. to July 1925 Field Asst., Hydrographer, and July 1925 to date Jun. Engr., Water Resources Branch, U. S. Geological Survey, field work, stream gauging, office computations of stream discharge measurements. TT 0.2: SP 0.2. TT 3.8: SP 3.8. Refers to F. A. Barnes, A. W. Harrington, W. F. Jordan, J. E. Perry, W. M. Stieve, L. G. Urquhart.

944 (1) MONCRIEF, JAMES BASIL, Care, Cerro de Pasco Copper Corporation, Oroya, Peru. (Age 24. Born Westmoreland, Tenn.) Student, Univ. of Tennessee (1921 to 1923, 1½ years) and Armour Inst. of Technology (Evening School) (1922 to 1924, 2 years). Jan. 1923-April 1924 Draftsman (1 year) and Cabling Engr. (4 months), Western Elec. Co., Chicago, Ill., on cable layouts for automatic telephone systems. TT 1.8: SP 1: P 0.8: D 0.8. May to July 1924 Rodman, Louisville & Nashville R. R. Co. TT 0.2: SP 0.2. Aug. 1924-May 1925 Structural Draftsman (nearly 4 months) and Asst. Chf. Draftsman (6 months), Tampa (Fla.) Shipbuilding & Eng. Co., in charge of Drafting Dept. in absence of Chf. Draftsman. TT 0.8: SP 0.8: P 0.5: RC 0.5: D 0.5. June 1925 to date Draftsman, Cerro de Pasco Copper Corporation, Oroya, Peru, on maintenance. TT 0.2: P 0.2. TT 2.5: SP 1.5: P 1: RC 0.5: D 0.8. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

945 (10) MOORE, PAUL ROSS, Care, City Hall, Ft. Pierce, Fla. (Age 40. Born Lancaster, S. C.) Registered Civ. Engr., State of North Carolina. 1908 B. S., Univ. of S. C. 1908 to 1911 County Engr., Lancaster County, S. C., on surveys, road construction, bridge design and construction. TT 5: SP 3: P 2: RC 2: D 0.5. 1911 to 1912 Superv. Engr., C. W. Requarth Co., Charlotte, N. C., on Catawba River Bridge and others. TT 1: P 1: RC 0.5: D 0.5. 1912 to 1914 Res. Engr., Kershaw (S. C.) Cotton Mills, in charge of erection (\$300 000). TT 2: P 2: RC 2. 1914 to 1917 with H. S. Jaudon Eng. Co. of Savannah and Elberton, Ga., as Res. Engr. and Supt. of Constr. of water-works, sewers, bridges, and pavements (\$1 500 000). TT 3: P 3: RC 3: D 1.5. 1917 to 1919 1st Lieut., F. A., U. S. Army, 1 year with A. E. F., 6 months in Germany. TT 2: P 2: RC 2. 1919 to 1921 Res. Engr. with Gilbert C. White, Durham, N. C., on sewers, paving and bridges (\$2 000 000). TT 2: P 2: RC 2: D 1. 1921 to 1922 with W. C. Olsen, Raleigh, N. C., on power plant, sewer, water and paving. TT 1: P 1: RC 1: D 0.5. 1922 to 1924 Pres. and Treas., Moore & McCrady, Contr. Engrs., built Lynches River Bridge and \$250 000 pavement. TT 2: P 2: RC 2: D 0.5. 1924 to 1925 Cons. Engr., dams, reservoirs, bridges and buildings. TT 1: P 1: RC 1: D 0.5. 1925 to date City Engr., Ft. Pierce, Fla., paving, sewers, bridges, seawall, dredge work (to exceed \$8 500 000). TT 0.2: P 0.2: RC 0.2: D 0.2. TT 19.2: SP 3: P 16.2: RC 15.7: D 5.2. Refers to G. H. Bishop, R. P. Bishop, H. S. Jaudon, W. C. Olsen, G. C. White.

946 (8) MORENO, MARIANO, Room 803, LaSalle Station, Chicago, Ill. (Age 33. Born Curuzú Cuatia, Corrientes Prov., Argentina.) 1922 B. S. in C. E., Univ. of Pittsburgh. June 1915 to Jan. 1916 Inspector and Draftsman, Argentine Naval Comm. at New York Shipbuilding Corporation, Camden, N. J. TT 2.6: SP 2.6. Jan. 1916 to Jan. 1917 Tracer and Draftsman, Highway Dept., Baldwin Locomotive Works, Philadelphia, Pa. TT 1: SP 1. Jan. to July 1917 Inspector, Dept. of San. Works of Buenos Aires, Argentina, at various plants of United States Cast Iron Pipe & Foundry Co., Burlington, N. J. TT 0.5: SP 0.5. July 1917 to April 1918 Structural Draftsman, Allen & Garcia Co., Chicago, Ill. TT 0.7: SP 0.7. May 1918 to Jan. 1919 Structural Draftsman, Pensacola (Fla.) Shipbuilding Co. TT 0.7: SP 0.7. Feb. 1919 to July 1920 Asst. Engr., designing and estimating steel buildings and bridges, McClintic Marshal Constr. Co., Pittsburgh, Pa. TT 1.3: P 1.3: RC 1.3: D 1.3. July 1920 to Sept. 1921 Structural Designer and Detailer, National Conveying Equipment Corporation, Chicago. TT 1.1: P 1.1: RC 1.1: D 1.1. Dec. 1921 to Aug. 1922 Senior in Civ. Eng., Univ. of Pittsburgh. Aug. 1922 to Sept. 1923 Structural Designer and Estimator, Structural Dept., New York Shipbuilding Corporation, Camden. TT 1.1: P 1.1: RC 1.1: D 1.1. Oct. 1923 to June 1924 bridge designing and detailing, Strauss Bascule Bridge Co., Chicago. TT 0.7: P 0.7: D 0.7. July 1924 to date Bridge Designer and general structural work, Chicago, Rock Island & Pacific Ry. Eng. Dept., Chicago. TT 1.3: P 1.3: RC 1.3: D 1.3. TT 11.2: SP 5.6: P 5.6: RC 4.8: D 5.6. Refers to A. Allen, G. W. Case, J. S. Lambie, R. MacMinn, L. C. McCandless, C. A. Morse, E. S. Nethercut, J. H. Smith, F. H. Wells.

947 (4) OCHSNER, EMIL, Box 293, Bethlehem, Pa. (Age 27. Born Fehraltorf, Switzerland.) 1918 Licensed as Federal Surveyor, Switzerland. 1916 received degree of Surveyor, Technikum in Winterthur, Switzerland. 1923 Diploma Engr. (Civ.), Swiss Federal Polytechnic Inst. 1916 to 1917 Surveyor with City Surveyor, Malters, Switzerland. TT 3: SP 3. 1917 to 1918 municipal work for City Engr., Lyss, Switzerland. TT 1: SP 1. 1918 to 1919 Inspector and Draftsman with E. Meier, Cons. Engr., Wetzikon, Switzerland. TT 1: SP 0.5: P 0.5. July to Sept. 1922 Hydr. and Structural Engr., Société Technique pour l'Industrie, Paris, France. TT 0.2: P 0.2: D 0.2. March to July 1924 Draftsman with C. C. Hurlbut, Cons. Engr., New York City. TT 0.3: P 0.3. Aug. 1924 to date Draftsman and Designer, Lehigh Valley R. R. Co., Office of Bridge Engr., Bethlehem, Pa. TT 1.1: P 1.1: D 0.9. TT 6.7: SP 4.5: P 2.2: D 1.1. Refers to O. H. Ammann, J. Feld, C. C. Hurlbut, H. T. Rights, F. E. Schall, F. C. Stehle.

948 (2) PIERCE, HERBERT RALPH, 59 Oak St., Hyde Park, Mass. (Age 25. Born Washington, D. C.) 1920 U. S. Mil. Acad. 1925 B. S., Mass. Inst. Tech. TT 2: SP 2. Refers to J. B. Babcock 3d, H. L. Bowman, C. B. Breed, G. L. Hosmer, J. W. Howard, C. M. Spofford.

949 (1) POGANY, ANDOR, 306 Carlton Ave., Brooklyn, N. Y. (Age 30. Born Budapest, Hungary.) 1920 C. E., Royal Tech. Univ., Budapest, Hungary. 1912 to 1914 Draftsman, Royal Hungarian States R. R. 1914 to 1918 Lieut. in Austrian Army, 1½ years with Corps of Engrs. Aug. 1920 to March 1922 Designer of hydro, steam-, and Diesel-electric developments, South Swedish Power Co., Malmo, Sweden. TT 3.6: SP 2: P 1.6: D 1.6. May 1922 to Aug. 1923 with Martin Walter Bldg. Co., Worms a Rh., Germany, as Supt. for Lanz-Wery Machine Factory (reinforced concrete) in Zweibrücken. TT 1.3: P 1.3: RC 1.3. Feb. 1924 to date Designer of hydro electric developments, Elec. Bond & Share Co., New York City. TT 1.6: P 1.6: D 1.6. TT 6.5: SP 2: P 4.5: RC 1.3: D 3.2. Refers to G. Blaauw, W. E. Brown, W. S. Merrill, H. H. Steinhauser, H. R. Stocker.

950 (1) QUINONES, SALVADOR, P. O. Box 231, Rio Piedras, Porto Rico. (Age 25. Born Fajardo, Porto Rico.) 1921 C. E., Cornell Univ. March-June 1921 Inspector of Public Works, design and inspection of culverts and small bridges, and July to Oct. 1921 Asst. Civ. Engr., design of bridges and general engineering work, Dept. of the Interior, San Juan, Porto Rico. TT 2.7: SP 2.4: P 0.3. Oct. 1921 to June 1923 Asst. Prof. of Civ. Eng., Coll. of Agriculture and Mechanic Arts, Univ. of Porto Rico, Mayaguez, Porto Rico, during summer teaching mathematics. TT 1.7: P 1.7: RC 1.5. June 1923 to June 1924 First Asst. Engr., Office of Engr. in Chg. of Public Improvements, City of San Juan, Porto Rico, new water supply system, five school buildings, sewerage works, etc. (total work to be done over \$3 000 000). TT 1: P 1: RC 1. June 1924 to date in private practice; contracting for Govt. of Porto Rico, built 9 km. of macadam roads (contracts over \$100 000). TT 1.2: P 1.2: RC 1.2. TT 6.6: SP 2.4: P 4.2: RC 3.7. Refers to M. Font, R. A. Gonzalez, A. S. Luchetti-Otero, R. Ramirez, E. Totti y Torres.

951 (1) READ, HENRY WHITAKER, 73 Van Ness Ave., Rutherford, N. J. (Age 36. Born Brooklyn, N. Y.) Sept. 1911 to Sept. 1913 Draftsman, R. Hoe & Co., Ltd., London, England, and Oct. 1913-Sept. 1917 Draftsman, R. Hoe & Co., New York City, design work on rotary printing presses. TT 6: SP 2: P 4: D 4. Oct. 1917 to Sept. 1922 with William T. Donnelly, Cons. Engr., New York City, 1½ years as Draftsman on harbor development work, design of dry docks, piers and bulkheads, and design work on vessels for U. S. Shipping Board; after Feb. 1919 Res. Engr. supervising construction of floating dry dock (20 000 tons) for E. F. C., U. S. Shipping Board and floating docks (8 000 tons) for W. & A. Fletcher Co., Hoboken, N. J., and Federal Shipbuilding Co., Kearny, N. J. TT 5: P 5: RC 3.7: D 1.3. Oct.-Dec. 1922 Draftsman with Booth & Flinn, Engrs., New York City, designing plant structures in connection with building Hudson River Vehicular Tunnel. TT 0.3: P 0.3: D 0.3. Feb.-May 1923 Draftsman, R. Hoe & Co., foundation and drive design work for rotary printing presses. TT 0.3: P 0.3: D 0.3. June 1923-Aug. 1925 Res. Engr. with William T. Donnelly, supervising construction of floating dry dock (15 000 tons) for Burrard Dry Dock Co., Ltd., North Vancouver, British Columbia. TT 2.2: P 2.2: RC 2.2. TT 13.8: SP 2: P 11.8: RC 6: D 5.9. Refers to E. D. Buel, M. E. Chamberlain, G. John, A. Lyle, C. M. Mapes, F. A. Schrader.

952 (5) REIMANN, JOHN, Broad St. Station, Richmond, Va. (Age 37. Born New Haven, Conn.) 1909 Ph. B., Sheffield Sci. School. July 1909 to Jan. 1910 Track Apprentice and Chairman, Missouri Pacific R. R. TT 2.5: SP 2.5. Jan. to April 1910 Computer, hydroelectric survey, Aluminum Co. of America, Massena, N. Y. TT 0.3: SP 0.3. April 1910 to Jan. 1911 Topographer and Leveeler, Panama R. R., Cristobal, Canal Zone. TT 0.7: SP 0.7.

Feb. to April 1911 Levele, Western Maryland R. R. TT 0.2: SP 0.2. April to Dec. 1911 Chf. of field party on Prof. Swain's valuation of New York Central R. R. TT 0.7: P 0.7: RC 0.7. Dec. 1911 to May 1913 Rodman and Inspector, Constr. Dept., New York, New Haven & Hartford R. R., New Haven, Conn. TT 1.5: SP 1.5. June 1913 to Jan. 1914 Instrumentman, Sperry Eng. Co., New Haven, Conn. TT 0.7: SP 0.7. March 1914 to March 1924 Jun. Civ. Engr. and Senior Civ. Engr., Bureau of Valuation, Interstate Commerce Comm., Washington D. C. TT 10: SP 3: P 7: RC 1. March 1924 to date Special Engr., Valuation Dept., Richmond, Fredericksburg & Potomac R. R., Richmond, Va. TT 1.6: P 1.6: RC 1.6. TT 18.2: SP 8.9: P 9.8: RC 3.3. Refers to O. B. Bestor, L. C. Hammond, E. M. Hastings, E. M. Killough, J. P. McAvoy, M. S. McDanel, A. C. Olney, C. H. Quimby, Jr., S. S. Stevens, E. F. Wendt.

953 (10) ROBINSON, ONSLOW STEWART, 701 Ingleside Ave., St. Petersburg, Fla. (Age 23. Born Vineyard Haven, Mass.) 1925 S. B., Mass. Inst. Tech. June 1925 to date Draftsman, Parklap Constr. Co., St. Petersburg, Fla., computing, drafting, estimating on bridges and buildings. TT 2.3 SP 2.3. Refers to J. B. Babcock, 3d, H. K. Barrows, H. L. Bowman, J. W. Howard, C. M. Spofford.

954 (1) ROGERS, ALBERT WILLIAM, Samana & Santiago Ry. Co., Ltd., Sanchez, Santo Domingo. (Age 29. Born London, England.) May to Dec. 1914 studying concrete methods, British Reinforced Concrete Co. TT 0.6: SP 0.6. Dec. 1914 to Oct. 1915 studying concrete, Trussed Concrete Steel Co. TT 0.8: SP 0.8. Oct. 1915 to Jan. 1920 with H. M.'s Forces in France, 2 years in Infantry, and 2 years Lieut., Royal Engrs., on roads and bridges and building construction; 1918 bridged Scheldt River; 1919 directed construction of concrete standings for 5000 horses, also roads and water supply, at Arques. TT 4: SP 2: P 2: RC 2. Jan. 1920 to date with Samana & Santiago Ry. Co., Ltd., Sanchez, Santo Domingo, 2 years as Asst. Engr., and at present Res. Engr. TT 5.8: P 5.8: RC 3.8. TT 11.2: SP 3.4: P 7.8: RC 5.8. Refers to J. H. Caton, 3d. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

955 (6) ROSS, CONRAD MILTON, 605 Hall St., Charleston, W. Va. (Age 29. Born Clay Court House, W. Va.) Registered Prof. Engr., State of West Virginia. June to Aug. 1916, Rodman and June to Aug. 1917 Instrumentman, Eng. Dept., Kanawha County, W. Va. TT 0.5: SP 0.5. March to May 1919 Rodman, U. S. Navy, Naval Ordnance Plant, Charleston, W. Va., ran transit. TT 0.2: SP 0.2. May 1919 to date with City of Charleston, 2 years as Draftsman, plotting surveys, tracing, etc. 2 years Chf. Draftsman and Office Engr., in charge of draftsmen, plotting surveys and design of streets and sewers, also made estimates; since May 1923 Asst. City Engr. in charge of surveys, location and construction of streets, sewers and general municipal engineering work. TT 6.3: SP 2: P 4.3: RC 4.3: D 2. TT 7: SP 2.7: P 4.3: RC 4.3: D 2. Refers to E. A. Bruce, H. L. Campbell, M. J. McChesney, T. A. Polansky, W. D. Sell.

956 (7) ROTHGERY, LEE JOSEPH, 421 Linden St., East Lansing, Mich. (Age 33. Born Cleveland, Ohio.) 1924 passed State Registration Examinations. 1921 B. S. in C. E., Mich. State Coll., April to Oct. 1915 and Aug. to Oct. 1917 Rodman, J. B. Davis & Son, Civ. Engrs., Cleveland, Ohio. Jan. to June 1918 and March 1919 to Jan. 1920 Draftsman and Chf. of Party, June to Sept. 1920, March 1921 to April 1923 and Aug. to Oct. 1923 Res. Engr. on construction and (winters) on municipal surveys and design, all for Michigan State Highway Dept. June 1918 to March 1919 2d Lieut., Field Artillery, U. S. Army. TT 5.9: SP 2.5: P 3.4: RC 2.2: D 1. Oct. 1923 to Oct. 1924 Engr. and Gen. Supt. with Townsend & Hoffmann, Inc., Gen. Contrs., Lansing, Mich. TT 1: P 1: RC 0.8: D 0.2. Oct. 1924 to July 1925 Instructor and research, Michigan State Coll. TT 0.7: P 0.7. July to Sept. 1925 in private practice, sewer and street design and survey. Sept. 1925 to date Eng. Extension and Experiment Station, Michigan State Coll. TT 0.2: P 0.2. TT 7.8: SP 2.5: P 5.3: RC 3: D 1.2. Refers to C. L. Allen, J. H. Bateman, G. C. Dillman, O. E. Eckert, E. D. Rich, J. H. Wasson, H. C. Woods.

957 (10) ROWE, PERRY ARTHUR, P. O. Box 3323, West Palm Beach, Fla. (Age 34. Born in Greeley County, Nebr.) 1914 B. C. E., Univ. of Ky. Summer 1910 Rodman, Louisville & Nashville R. R. Summer 1911 Rodman, J. G. White & Co. Summer 1912 Inspector, City of Lexington, Ky., on street paving. TT 2: SP 2. 1913 (nearly 4 months) and 1914 to 1918 Asst. City Engr., Lexington, in 1913 had charge of sewer construction and part of street construction, made plans, profiles, etc.; 1914 to 1918 had charge of most of engineering work for building of 21 miles of streets, 30 miles of sewers, etc. TT 5: P 5: RC 3: D 2. 1919 to 1925 Engr. in Chg., P. A. Rowe & Co., Civ. Engrs., at Lexington and Irvine,

Ky., and West Palm Beach and Lake Wales, Fla.; since 1919 Res. Engrs., Lexington Water Co.; since 1922 City Engrs. of Irvine; built 5 miles of streets and designed 10 miles of sewers; since 1924 County Road Engrs., Estill County, Ky.; firm has made over 200 appraisal reports for oil companies; engineered building of more than 150 miles of oil and gas trunk pipe lines; laid out over 250 subdivisions and designed and superintended construction of improvements in them. TT 7: P 7: RC 7: D 7. TT 14: SP 2: P 12: RC 10: D 9. Refers to L. O. Coleman, F. C. Dugan, R. B. Hayes, J. G. Roney, W. E. Rowe, C. H. Schwartz, J. R. Watkins.

958 (10) SAURBREY, KAY NIELS GODOFRED, 113 Elam Ave., Greensboro, N. C. (Age 53. Born Nastved, Denmark.) Commissioned 2d Lieut., Military School, Randers, Denmark 1894 to 1898 Instrumentman and Draftsman on railroad construction in South America. TT 4: SP 4. 1898 to 1908 Instrumentman and Draftsman for various engineers in the United States, including 3 years with U. S. Engrs. on construction of sea coast fortifications at entrance to Pensacola Harbor, Fla., and 3 years under U. S. Engr. in Cuba as Chf. of Party, Designer, Supt. Govt. repair shop, and Gen. Inspector, construction of parks, 1 year Engr. for Constr. Quartermaster, U. S. Army, at Cienfuegos, Cuba, 1 year in Computing Dept., Mississippi River Comm. TT 8: SP 5: P 3: RC 1.5: D 1.5. 1908 to 1910 Chf. of Party and Inspector of construction, Sewer Dept., Washington, D. C. TT 2: P 2: RC 1: D 1. 1910 to 1911 Asst. Supt. on road work in Maryland. TT 1: P 1: RC 1. 1912 to 1913 Asst. Engr., City Engr's office, Altoona, Pa., on street paving, sewers and water. TT 2: P 2: RC 1: D 1. 1914 to 1916 Surveyor and Draftsman, County Surveyor's Office, Dayton, Ohio. TT 2: P 2: RC 1: D 1. March to June 1917 Inspector of Construction, Jennings-Lawrence Co., Columbus, Ohio. TT 0.3: P 0.3: RC 0.3. July to Sept. 1917 Chf. of Party, Constr. Div., Camp Sherman, Ohio. TT 0.2: P 0.2: RC 0.2. Oct. to Dec. 1917 Asst. Engr., Camp Joseph E. Johnson, Jacksonville, Fla., in charge of railroad construction, drainage, concrete. TT 0.3: P 0.3: RC 0.3. May to Oct. 1918 Engr. in charge of construction of Warehouses Nos. 1-3, Constr. Div., Army Supply Base, Norfolk, Va. TT 0.5: P 0.5: RC 0.5. Nov. 1918 to April 1919 Asst. Engr., Constr. Div., Camp Lee, Va., in charge of construction of sewage disposal and concrete roads. TT 0.5: P 0.5: RC 0.5. May to Nov. 1919 Designer, City Planning Comm., Norfolk. TT 0.6: P 0.6: D 0.6. Dec. 1919 to Sept. 1920 in private practice at Wilson, N. C., surveying, maps, sewers and warehouses. TT 0.8: P 0.8: RC 0.4: D 0.4. Oct. 1920 to Sept. 1921 Asst. Engr. on sewer construction for City of Wilson. TT 0.9: P 0.9: RC 0.9. Oct. 1921 to Feb. 1924 Res. Engr., North Carolina State Highway Comm. TT 2.3: P 2.3: RC 2.3. March 1924 to date Asst. Water Engr., Greensboro, N. C. TT 1.5: P 1.5: RC 0.7: D 0.7. Commissioned Capt. (Oct. 1919) and Major (Jan. 1924), Engrs., Reserve, U. S. Army. TT 27: SP 9: P 18: RC 11.7: D 6.8. Refers to C. N. Connor, S. F. Crecelius, C. Jacoby, F. W. Jennings, H. V. Joslyn, T. A. Leisen, R. F. MacDowell, P. C. Painter, S. R. Sharts, C. W. Smedberg, C. M. Upham.

959 (13) SCHORER, HERMAN, 5925 Chabot Rd., Oakland, Cal. (Age 33. Born Wangen a. d. Aare, Switzerland.) 1914 C. E., Polytechnic in Zurich, Switzerland. July 1914 to April 1917 Civ. Engr., Schweizerische Wasserkirtschaft, Bern, Switzerland, stream gaugings, hydrographic surveys, studies of available water power in Switzerland, in charge of field parties. TT 4.7: SP 3: P 1.7: RC 0.3. April 1917 to July 1920 Civ. Engr., Elektrizitätswerk Lonza, Basel, Switzerland, in Hydr. Dept., in charge of hydrographic service, design of high-head power plants, surveys and geological studies for damsites, power economics. TT 3.3: P 3.3: RC 3.3: D 1.5. Sept. 1920 to April 1921 Mech. Draftsman, New York Central R. R. Co., Dept. of Rolling Stock, New York, car drafting, structural design. TT 0.5: SP 0.3: P 0.2: D 0.2. April to June 1921 Mech. Draftsman, Merchants Dispatch Transportation Co., East Rochester, N. Y., structural drafting, shop work. TT 0.2: SP 0.2. Jan. 1922 to Dec. 1923 Draftsman and Designer, San Joaquin Light & Power Corporation, Fresno, Cal. Constr. Dept., Kings River Project, railroad and road estimates, stream gaugings, power combination studies, dam design, after May 1923 in charge of field office. TT 1.9: P 1.9: RC 0.5: D 1. Dec. 1923 to Feb. 1924 Designer with Thebo, Starr & Anderton, San Francisco, Cal., checking designs for railroad viaduct over Merced River. TT 0.2: P 0.2: D 0.2. Feb. to Nov. 1924 Designer with Estuary Subway Office, Oakland, Cal., on design of reinforced concrete frames for Estuary tube and approaches, checking, translations. TT 0.8: P 0.8: D 0.8. TT 11.6: SP 3.5: P 8.1: RC 4.1: D 3.7. Refers to N. D. Baker, A. W. Earl, W. B. McMillan, E. Newman, F. A. Noetzli.

960 (1) SHERR, VLADIMIR, Povarskaia, Troubukovsky per., N 26, Ap. 11, Moscow, Russia. (Age 39. Born Oufa, Russia.) 1902 graduated, Technological Inst. St. Petersburg and National School of Bridges and Roads (Paris). June 1907 to March 1908 Asst. to Chf. of

District of Way, and March 1908 to Nov. 1909 Chf. of District of Way, South-Western Ry., Russia. TT 2.2: P 2.2: RC 1.5. Jan. 1910 to Oct. 1911 Designer and Chf. Constructor of Black Sea Society of Constructions in Concrete and Steel, St. Petersburg. TT 1.7: P 1.7: RC 1.7. Oct. 1911 to Dec. 1922 with Northern Ry., Russia, as follows: Oct. 1911 to April 1915 Chf. Engr. of technical office of way; April 1915 to April 1917 Chf. of District on construction of railway, Petersburg-Zwanka; April 1917 to July 1918 Chf. Designer in construction staff on principal railway shops at Moscow; July 1918 to July 1919 Chf. Engr. Dept. of Constr., in same shops; July 1919 to Dec. 1922 Chf. of Technical office on same construction. TT 11.2: P 11.2: RC 3: D 8.2. Jan. 1919 to date Prof. of Bridges, in Agricultural Acad., Prof. of Structural Eng., Superior Technical School, and Prof. of Waterways, Inst. of Ways of Communication, Moscow. Dec. 1922 to Dec. 1924 Chf. Engr., Constr. Bureau, N. Bodin & Co. TT 2: P 2: RC 2. Dec. 1924 to date Chf. of Dept. of Constr. of War Works, Mastajarte. TT 0.8: P 0.8: RC 0.8. TT 18: P 18: RC 9: D 8.2. Refers to S. de Karelscha, V. E. Timonoff. (Applies in accordance with Sec. 1, Art. 1, of the By-Laws.)

961 (3) SOMERS, NEWTON LLOYD, 252 Bloor St. West, Toronto, Ont., Canada. (Age 37. Born Simcoe, Ont., Canada) 1914 B. A. Sc., and 1925 C. E., Univ. of Toronto. May to Sept. 1911 Chainman, and May to Sept. 1912 Instrumentman, Topographical Surveys Branch, Dominion Govt. May to Sept. 1913 Draughtsman with James, Loudon & Hertzberg, Cons. Engrs. TT 3.2: SP 3.2. May 1914 to July 1915 Inspector on steel and reinforced concrete buildings and bridges, Canadian Inspection Co., Ltd. TT 1.1: SP 1.1. July 1915 to May 1916 Chf. of Party, Topographical Surveys Branch, Dominion Govt. TT 0.9: P 0.9. May 1916 to Dec. 1920 with Algoma Steel Corporation, Sault Ste. Marie, Ont., in 1916-1917 as Coke Plant Engr. in charge of repairs and renewals to plant of 120 ovens and building of 60 more; 1918-1919 in charge of operation of all air, gas and steam machinery for steel plant; 1920 Asst. to Works Engr. on construction of \$8 000 000 rolling mill, in charge of specification work, outside inspections and progress reports and general efficiency of contractors doing the work. TT 4.8: P 4.8: RC 2: D 2. Jan. 1921 to Jan. 1923 with Reid & Somers, Ltd., Cons. Engrs. and Contrs., in charge of design and supervision of construction in field of bridges, highways and water-works systems. TT 2: P 2: RC 2: D 2. Jan. to Nov. 1923 on export work in Far East and India representing numerous Canadian manufacturers. TT 0.8: P 0.8: RC 0.8. Nov. 1923 to date with E. L. Ruddy Co., Ltd., Toronto, in charge of Industrial Eng. Dept., has installed complete system of stores and shop management. TT 1.8: P 1.8: RC 1.8. TT 14.6: SP 4.3: P 10.3: RC 6.6: D 4. Refers to W. Chipman, E. A. James, J. R. Montague, C. R. Young. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

962 (1) STAUBITZ, EDWARD JULIUS, 2639 Jerome Ave., New York City. (Age 33. Born Port Richmond, N. Y.) 1909 to 1911 and 1912 to 1915 detail drafting, Milliken Bros., Inc., Staten Island, New York. TT 3: SP 3. 1909 to 1912 detail drafting for Mulcahy & Gibson (1½ years) and Communipaw Steel Co. (1 year), New York City. TT 2.5: SP 2.5. 1916 detail drafting of railway bridges, Hildreth & Co. TT 0.5: SP 0.5. 1916 to 1918 with Milliken Bros., Inc., drafting and checking, buildings, bridges and elevated structures. TT 2: SP 2. 1918 to Feb. 1919 Asst. Plant Engr., Downey Shipbuilding Co., Arlington, N. Y., on design and supervision of equipment for converting structural plant into shipyard. TT 1: P 1: RC 1: D 1. Feb. 1919 to Jan. 1920 Plant Engr., Sun Shipbuilding Co., Chester, Pa., on design and supervision of installation of buildings and equipment. TT 0.9: P 0.9: RC 0.9: D 0.9. Jan. 1920 to date Engr., contracting and design of buildings, transmission and radio towers, Millikin Bros. Mfg. Co., Inc., New York City. TT 5.5: P 5.5: RC 5.5: D 5.5. TT 15.4: SP 8: P 7.4: RC 7.4: D 7.4. Refers to A. A. Casani, C. J. Hartenstein, J. E. Jennings, R. T. Leipold, G. H. Seybolt, H. M. Ward.

963 (1) SUNDAR, PADMA MALLA, Pradham's Cottage, Darjeeling, India. (Age 27. Born in Nepal, India.) 1922 B. S. in E. E., Univ. of Mich. May to Sept. 1917 Machinist Helper in shop, Bertram Elec. Co. July to Oct. 1918 Draughtsman in Designing Room, Bosch Magneto Co., assembling, detailing and tracing drawing from sketch. Feb. to Sept. 1920 Machine Apprentice, Ford Motor Co., repairing lathes and drill presses; also student, Tool Designers' Class in Ford School. TT 2.7: SP 2.7. July 1922 to Aug. 1923 with Ford Motor Co., until Jan. 1923 as Electrician, repairing electric motors and starters (3 months) and in charge of electrical machinery in machine shop (3 months); then (4 months) supervising as Asst. in construction of substation, and after May 1923 Substation Operator in charge of electrically and steam-driven pumping station. TT 1.2: P 1.2: RC 0.6. Sept. to Dec. 1923 Switchboard Engr., Westinghouse Elec. & Mfg. Co., designing A. C. and D. C. switchboards for

power plants and substations. TT 1.2: P 1.2: D 1.2. March to May 1925 made preliminary surveys and estimates for hydro-electric plant at Gangtok, Sikkim, for Sikkim Durbar. TT 0.2: P 0.2: RC 0.2. June and July 1925 made preliminary surveys and estimates for proposed 200-kw. hydro-electric plant at Kurseong, Darjeeling, D. B. Gurung, Contr. TT 0.2: P 0.2: RC 0.2. TT 6.1: SP 3.2: P 2.8: RC 1: D 1.2. Refers to A. J. Decker, W. C. Hoad, H. E. Riggs, C. O. Wisler. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

964 (1) THEIMER, OTTO FREDERICK, 415 West 118th St., New York City. (Age 31. Born Altendorf, Moravia, Czecho-Slovakia.) 1921 Engr., and 1922 Dr. of Tech. Sci., Deutsche Technische Hochschule in Bruenn. Oct. 1918 to Sept. 1924 Asst. Prof. of Highway, Ry. Constr. and Tunneling, Deutsche Technische Hochschule in Bruenn, Czecho-Slovakia. TT 7.9: SP 4.6: P 3.8: RC 2. Oct. 1924 to date Asst. to Gustav Lindenthal, Cons. Engr., New York City, on design and computation of bridges. TT 1: P 1: RC 0.2: D 1. TT 8.9: SP 4.6: P 4.3: RC 2.2: D 1. Refers to A. P. Andersen, W. A. Cuenot, K. Imhoff, G. Lindenthal, F. L. Stuart.

965 (8) TURPIN, UPSHUR FARRINGTON, 140 South Dearborn St., Chicago, Ill. (Age 30. Born Angus, Iowa.) 1918 B. S. C. E., Purdue Univ. July 1918 to March 1919 with Bldg. Material Div., War Industries Board, Washington, D. C., as Asst. to Director in charge of Dept. of Clearance and Allocation of Bldg. Materials. TT 2.7: SP 2.7. April 1919 to May 1924 Asst. Engr., W. E. Buel & Co.; from Inspector of Engr. in charge of design on all forms of municipal improvements, water-works, sewerage, sewage disposal, paving, etc. TT 5.1: SP 0.5: P 4.6: RC 3.6: D 3.6. May 1924 to date Office Engr. with Consoer, Older & Quinlan, in charge of design of municipal improvements, sewer, water-works, paving, etc. TT 1: P 1: RC 1: D 1. TT 8.8: SP 3.2: P 5.6: RC 4.6: D 4.6. Refers to A. W. Consoer, W. K. Hatt, R. L. Humphrey, G. C. D. Lenth, C. Older, G. A. Quinlan, E. C. Wenger.

966 (8) WARD, RONALD DAVIES, 30 E. Curtis St., Downers Grove, Ill. (Age 24. Born Chester, England.) 1925 B. S. in C. E., School of Mines, Univ. of Mo. March to Sept. 1921 Draftsman, Bookkeeper, Roosevelt Min. & Milling Co., Alice, Colo. June to Sept. of years 1922-1924 Draftsman, Surveyor; Highway Engr. of St. Louis County, Clayton, Mo., office work, drafting of plans, plats, grade computing and locating, earthwork computations, culvert design, drainage problems; field work, setting stakes, running right-of-way lines, relocating, curves, etc., material inspecting. TT 2.6: SP 2.6. June 1925 to date Jun. Engr., Illinois State Highway Dept., Dist. No. 1, Elgin, Ill., field work, Instrumentman, Pavement Inspector. TT 0.4: SP 0.4. TT 3: SP 3. Refers to J. B. Butler, E. G. Harris, R. W. Jablonsky, T. G. MacCarthy, C. V. Mann.

967 (7) WEIL, HERBERT LOUIS, 1218 Washtenaw, Ann Arbor, Mich. (Age 22. Born Wadena, Minn.) 1925 B. S., Coll. of Eng., Univ. of Mich. Aug. to Nov. 1923 Instrumentman, Field Surveyor, Bldg. and Grounds Dept., Univ. of Michigan. June to Sept. 1924 and June 1925 to date Material Tester, Michigan State Highway Dept., Laboratory Tester of bituminous materials. TT 2.2: SP 2.2. Refers to A. H. Blanchard, R. L. Morrison, H. E. Riggs, R. H. Sherlock, R. S. Swinton, C. O. Wisler.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

968 (1) BARNES, FRANK WILLIAM, Assoc. M., 92-42 Seminole Ave., Hollis, N. Y. (Elected Dec. 6, 1910.) (Age 43. Born Ayer, Mass.) Sept. 1901 to June 1906 with Boston & Maine R. R., until Aug. 1902 as Rodman, then Instrumentman, and after Nov. 1905 Asst. Engr. in charge of new construction, designing and building retaining walls, bridges, culverts, abolition of grade crossings, surveys and maintenance. TT 4.7: SP 1.9: P 2.8: RC 1.1: D 2. June 1906 to June 1907 Div. Engr., Central New England R. R., had charge of preliminary surveys, designing and construction of abolition of grade crossing, maintenance, bridge work, roundhouse, turntable and water-tank construction, and office work in connection with change in track alignment. TT 1: P 1: RC 1: D 0.8. June 1907 to Nov. 1908 with Long Island Motor Parkway, until May 1908 as Asst. Engr. in charge of preliminary surveys, then Div. Engr. in charge of construction, including building of 9 miles of cement roadway and 17 I-beam highway bridges. TT 1.3: P 1.3: RC 1.3: D 0.8. Nov. 1908 to March 1910 Asst. Engr., New York Continental Jewell Filtration Co., on construction of sewage disposal plant for Baltimore, Md., part of time (in absence of Div. Engr.) in charge. TT 1.3: P 1.3: RC 1.3: D 0.5. March to Nov. 1910 Res. Engr., Idaho Irrigation Co., in charge of tract on

Richfield Irrigation Project, including irrigation construction, maintenance and operation, surveying and water gauging. $TT\ 0.7: P\ 0.7: RC\ 0.7: D\ 0.5$. Nov. 1910 to March 1912 Asst. Constr. Supt., J. G. White Eng. Co., on Ocoee River hydro-electric plant for Tennessee Power Co. $TT\ 1.3: P\ 1.3: RC\ 1.3: D\ 0.5$. March 1912 to Jan. 1915 with Power Constr. Co., engineering and construction work for New England Power Co., until Oct. 1912 as Res. Engr. in charge of hydro-electric development No. 2, Deerfield River; then Transmission Line Supt. in charge of field engineering and construction of transmission line; after April 1914 Asst. to Pres. in charge of construction of hydro-electric plant No. 5 on Deerfield River. $TT\ 2.9: P\ 2.9: RC\ 2.9: D\ 0.3$. Jan. 1915 to March 1918 Constr. Supt., J. G. White Eng. Corporation, in charge of rehabilitation of Cayuga Cement Corporation's Cement Mill and erection of steam power plant. $TT\ 1.2: P\ 1.2: RC\ 1.2: D\ 0.4$. March to Nov. 1916 Constr. Mgr., Commonwealth Acid Phosphate Co., in charge of erection of plant. $TT\ 0.7: P\ 0.7: RC\ 0.7: D\ 0.7$. Nov. 1916 to June 1917 Asst. to Pres., Power Constr. Co., on engineering and construction work. $TT\ 0.6: P\ 0.6: RC\ 0.6$. June 1917 to Dec. 1921 Constr. Supt., J. G. White Eng. Corporation, in charge of Hudson Power Co. Developments, including erection of transmission lines, substations, also gas generating plants (June 1917 to Sept. 1918), of erection of transmission lines and substations for Govt. Nitrate Plant No. 4, Cincinnati (Sept. 1918 to March 1919), of new construction, maintenance and repair work at Nichols Copper Co.'s plant (March 1919 to Nov. 1920), of erection of 90-ton sulphuric acid plant, sulphate of aluminum plant complete, steam power plant and bauxite crushing plant (Nov. 1920 to May 1921), and (after May 1921) in office on general work. $TT\ 4.5: P\ 4.5: RC\ 4.5: D\ 2$. Dec. 1921 to date with Parklap Constr. Co., until Feb. 1923 as Constr. Supt. on hydro-electrical developments on Hudson River, N. Y.; since then Vice-Pres. in charge of construction, covering hydro-electric plants, bridge work and industrial buildings. $TT\ 3.7: P\ 3.7: RC\ 3.7: D\ 1.5$. $TT\ 23.9: SP\ 1.9: P\ 2.2: RC\ 20: D\ 10$. Refers to A. A. Conger, A. S. Crane, W. J. Douglas, E. E. Halmos, J. P. Hogan, E. W. Maloney, E. G. Williams.

969 (15) MUTH, FRANK AMENDE, Assoc. M., 224 Custom House Bldg., New Orleans, La. (Elected Oct. 10, 1916.) (Age 38. Born Kirksville, Ky.) 1910 B. S. in C. E., Coll. of Eng., Univ. of Mo. June to Sept. 1909 Surveyman, U. S. War Dept. June to Sept. 1910 Surveyman, U. S. Reclamation Service, Milk River Project, Malta, Mont. $TT\ 2.2: SP\ 2.2: Sept. 1910$ to July 1911 teaching in Civ. Eng. Dept., Univ. of Missouri (1 term), and Asst. to H. B. Shaw, Dean and Cons. Engr. on water-works system, Columbia, Mo. $TT\ 0.8: P\ 0.8$. July 1911 to Dec. 1914 Aid, U. S. Lighthouse Service, Staten Island, N. Y., surveying, designing fog signal layouts, clockwork and mechanisms, photometric tests, inspections of engineering materials for steel buoys, and vessels at steel mills, including supervision of construction of concrete lighthouse at Huntington Harbor, N. Y., also concrete and steel casing around 167-ft. brick tower, Fire Island, N. Y., tests of oil engines and air compressors, construction coast-protection devices and riprap protection at lighthouses, rebuilding and restoring of lighted structures. $TT\ 3.8: P\ 3.8: RC\ 0.5: D\ 0.7$. Dec. 1914 to July 1919 Asst. Supt., Office, Lighthouse Inspector (designation later changed by Congress to Supt. of Lighthouses), 8th Lighthouse Dist. (extends from St. Marks, Fla., to Rio Grande, Tex.), New Orleans, design and supervision of construction of lighthouse structures consisting of lighthouses, beacons, dwellings, wharves; supervision of plans and specifications for installation of boilers in steam vessels; supervision of repairs to vessels and machinery, construction of power launches. $TT\ 4.5: P\ 4.5: RC\ 3.5: D\ 1.2$. July 1919 to date (except June 1924 to Jan. 1925, on leave of absence, with City of New Orleans as Tech. Expert revising City's building code). First Asst. Supt., 8th Lighthouse Dist., with increase in responsibility in design and supervision and control of field repair and construction forces. $TT\ 6: P\ 6: RC\ 6: D\ 3.3$. $TT\ 17.4: SP\ 2: P\ 15.4: RC\ 10: D\ 5.3$. Refers to H. B. Bowerman, J. F. Coleman, J. S. Conway, D. Derickson, M. Garsaud, W. B. Gregory, F. C. Hingsburg, E. S. Lanphier, G. R. Putnam, B. A. Ross, E. R. Tinkham, S. M. Young.

970 (9) PULLIAM, HENRY ABBETT, Assoc. M., 401 Washington St., Paducah, Ky. (Elected May 28, 1923.) (Age 31. Born Owenton, Ky.) 1914 A. B., McLean Coll. June to Sept. 1913 Draftsman, Bell Telephone Co., Paducah, Ky. 1914-1915 (1 year) student, Carnegie Inst. of Technology. May to Sept. 1915 Instrumentman and Draftsman, McCracken County, Ky., surveyed and drew plans for highway construction. $TT\ 0.8: SP\ 0.2: P\ 0.1: D\ 0.1$. Sept. 1915 to Aug. 1916 with P. & I. R. R., as Inspector of concrete and steel, Instrumentman and Draftsman on construction of 5700-ft. bridge over Ohio River at Metropolis, Ill. $TT\ 1: P\ 1$. Sept. to Dec. 1916 1st Asst. Chf. Engr., Bond Issue Eng. Staff, Ballard County, Ky., instrument work on location and construction of highways. $TT\ 0.8: P\ 0.8: RC\ 0.8: D\ 0.8$. Jan. 1917 to May 1918 Instrumentman and Asst. Constr. Supt., Central Romana, La Romana, Dominican Republic, on sewer and sugar mill construction, concrete, rubble, steel and timber

work; also wharf building. *TT 1.3: P 1.3: RC 1.3.* May to Dec. 1918 Instructor and Asst. to Field Engr. Officer at Crail, Scotland, in U. S. Air Service, mechanical and engineering work incident to an aviation field. *TT 0.6: P 0.6: RC 0.3.* Jan. to Sept. 1919 Instrumentman and Constr. Supt., Cuyamel Fruit Co., Honduras, railroad location and maintenance, drainage, surveying and construction on Honduras-Guatemala Frontier. *TT 0.7: SP 0.5: P 0.2: RC 0.2.* Oct. 1919 to June 1920 Correspondent for *Inggenieria Internacional* in Spain; also wrote report for Riegos y Fuerza del Ebro Hydro-electric Corporation. *TT 0.6: SP 0.6.* June 1920 to Oct. 1922 Chf. Engr., Board of Drainage Commrs. for Mayfield Creek Drainage Dist. in McCracken, Graves, Carlisle and Ballard Counties, Ky., revision of plans and construction of \$530 000 system of drainage canals and ditches, in full charge. *TT 2.3: P 2.3: RC 2.3: D 0.5.* Oct. 1922 to Aug. 1925 Chf. Engr., Board of Drainage Commrs. of McCracken County, Mayfield Creek Drainage Dist., construction of Camp Creek Drainage Dist. (\$10 000); part of time on Clark's River Drainage Dist. (\$125 000) and other drainage and miscellaneous work, including travel and observation of engineering matters abroad. Jan. 1922 to Jan. 1924 also Commr. of Public Works and City Engr. of Paducah, Ky., design and construction of sewer contract (\$640 000), design of additional system (\$550 000) and construction of \$160 000 concrete street contract, also other municipal works. Jan. to June 1924 also Cons. Engr. to City of Paducah on sewer and street design and construction. *TT 2.9: P 2.9: RC 2.9: D 0.6.* *TT 10.1: SP 1.3: P 8.8: RC 7.4: D 1.4.* Refers to R. B. Brooks, W. F. Brooks, C. R. Fickes, S. R. Ginsburg, W. W. Horner, G. R. Smiley.

971 (10) SLADE, JOHN RHODES, Assoc. M., P. O. Box 255, Lake City, Fla. (Elected Oct. 8, 1918.) (Age 34. Born Columbus, Ga.) 1913 B. S. in C. E., Univ. of Ga. June to Dec. 1910 Rodman and Leveler on railroad surveys for Cia. Industrial de Michoacan, Ajijico, Michoacan, Mexico. *TT 2.5: SP 2.5.* Aug. 1913 to July 1916 with Isthmian Canal Comm. and Panama Canal, as Rodman, Levelman, charge of field parties on building and dock construction at Balboa Terminals, Transitman in charge of engineering and construction on unloader and end wharves, and Acting Jun. Engr. in charge of engineering, Cristobal Coalting Station. *TT 2.9: SP 0.8: P 2.1: RC 1.5: D 0.2.* Sept. 1916 to Jan. 1917 with Southern Power Co., Charlotte, N. C., as Instrumentman in charge of field work on dam and power-house construction for Wateree (S. C.) Power Co. *TT 0.3: SP 0.3.* Jan. 1917 to Oct. 1918 with Braden Copper Co., Rancagua, Chile, as Transitman and Chf. of Party on railroad location and construction; Chf. of Party, charge of field engineering and Asst. Engr., Calletones Div. on development and construction of 10 000-ton copper smelter plant. *TT 1.8: SP 0.1: P 1.7: RC 1.4: D 0.4.* Oct. 1918 to March 1919 at Officers' Training Camp, U. S. Army, Camp Fremont, Cal. March 1919 to June 1920 with Lockwood, Greene & Co., Engrs., Atlanta, Ga., as Res. Engr. in charge of building construction for International Cotton Mills, La Grange and Hogansville, Ga., and for Southern Spring Bed Co., Atlanta. *TT 1.3: P 1.3: RC 1.3.* June 1920 to June 1921 with Dept. of Public Works, Santa Domingo, as Res. Engr. to Acting Dist. Engr. in charge of Cibao Dist., construction of highways, bridges, buildings and general engineering aid to cities and provinces. *TT 1: P 1: RC 1: D 0.2.* April 1922 to date with Florida State Road Dept., Tallahassee, Fla., Inspection, Test Engr., Project Engr., charge of engineering and construction on Federal Aid concrete highway projects (approx. \$1 600 000). *TT 3.5: SP 0.1: P 3.4: RC 3.4: D 0.5.* *TT 13.3: SP 3.8: P 9.5: RC 8.6: D 1.3.* Refers to J. H. Caton, 3d, J. N. Pease, W. W. Stevens, C. M. Strahan, W. G. B. Thompson, W. E. Wheat, L. H. Williamson.

972 (10) YATES, EUGENE ADAMS, Assoc. M., 2811 Niazuma Ave., Birmingham, Ala. (Elected Junior Oct. 3, 1905; Assoc. M. Oct. 2, 1907.) (Age 44. Born Elizabeth, N. J.) 1902 B. S., Rutgers Coll. May 1902 to May 1908 with Pennsylvania R. R., until May 1905 as Rodman and Transitman; then Asst. Engr., East River Tunnels, New York. *TT 9: SP 5: P 4.* May 1909 to May 1911 with Fraser, Brace & Co., Gen. Contrs., as Supt. of Constr. on caisson work in New York City, and hydro-electric work in Canada. *TT 2: P 2.* May 1911 to May 1912 Supt., McArthur Bros., on design and construction Interurban R. R., Birmingham, Ala. *TT 1: P 1: RC 1: D 1.* May 1912 to Sept. 1914 Chf. Engr., Alabama Power Co., on design and construction Lock 12 hydro plant, Gadsden steam plant, and building high voltage transmission lines and substations. *TT 2.3: P 2.3: RC 2: D 2.* Sept. 1914 to Jan. 1920 Vice-Pres. and Chf. Engr., T. A. Gillespie & Co., Gen. Contrs., on miscellaneous construction work, pipe lines, dams, subways, etc. *TT 5.3: P 5.3: RC 5.3: D 5.3.* Jan. 1920 to Jan. 1922 in private practice as Cons. Engr., New York City, mainly hydro-electric work. *TT 1: P 1: RC 1: D 1.* Nov. 1922 to date Vice-Pres. and Gen. Mgr., Alabama Power Co.

TT 2.9: P 2.9: RC 2.9: D 2.9. TT 23.5: SP 5: P 18.5: RC 12.2: D 12.2. Refers to J. H. Brace, F. C. Hitchcock, F. Mason, A. C. Polk, W. G. Sloan, O. G. Thurlow, S. H. Woodard, J. J. Yates.

293 (4) WATT, ARCHIE GERRY, Affiliate, Young Bldg., Allentown, Pa. (Elected Dec. 6, 1920.) (Age 34. Born Milford, Conn.) April 1910 to June 1914 Asst. to Engr. Stevenson Mines, charge of field work of Stevenson and St Paul Mines; Stevenson underground, mine layouts, track ore grading. TT 4.2: SP 2: P 2.2: RC 2.2: D 2.2. June 1914 to June 1916 Highway Engr., Douglas County, Wis., survey and computation of highway improvements, design and construction of bridges, concrete roads. TT 2: P 2: RC 2: D 2. June 1916 to June 1920 Supt. of Constr., Stack Constr. Co., Engrs. and Contra., Duluth, Minn., supervision of heavy concrete and timber work, docks, trestles, bridges, design of various structures.

TT 4: P 4: RC 4: D 4. June 1920 to Feb. 1921 Concrete Engr., Douglas County, design and supervision of concrete roads and bridge construction. TT 0.8: P 0.8: RC 0.8: D 0.8. Feb. 1921 to Feb. 1923 promotional and educational work for use of cement, Portland Cement Association. TT 2: P 2: RC 2: D 2. Feb. to Aug. 1923 Mgr., New England Concrete Products Co., Boston, Mass., manufacture and sale of concrete blocks and roofing tile. TT 0.5: SP 0.5: RC 0.5. Aug. 1923 to Sept. 1924 Salesman, Knickerbocker Portland Cement Co. TT 1.1: SP 1.1. Sept. 1924 to date Service Mgr., Lehigh Portland Cement Co., Allentown, Pa., advice and aid to users of cement, including architects and engineers, preparation of books on material and method for good work. TT 0.8: P 0.8: RC 0.8. TT 15.4: SP 3.8: P 11.8: RC 10.8: D 9. Refers to E. C. Collier, E. H. Dresser, J. W. Johnston, J. R. Stack, B. H. Wait.

294 (15) BEREAL, ALEXANDER, Jr., Jun., Care, W. H. Williams Co., Inc., 816 Howard Ave., New Orleans, La. (Elected Oct. 21, 1924.) (Age 27. Born in Gibraltar.) 1921 B. E. in Civ. Eng., Tulane Univ. June to Dec. 1921 Inspector on construction, Louisiana Fire Prevention Bureau, New Orleans, La., inspecting electric wiring in buildings, installation of motors, generators and other electrical equipment. TT 2.5: SP 2: P 0.5. Jan. 1922 to Oct. 1924 Estimator, Doullut & Williams Co., Inc., New Orleans, making quantity surveys, applying different unit costs on different kinds of work, estimates on wharfs, bridges and buildings of all types; Engr. on construction, giving lines and grades and on instrument work; Draftsman drawing plans for buildings and making all details for work in field. TT 2.8: P 2.8: RC 1.3. Oct. to Dec. 1924 Estimator, Rouprich Constr. Co., New Orleans, and Dec. 1924 to date Estimator and Engr., W. Horace Williams Co., New Orleans, on same kind of work. TT 0.9: P 0.9: RC 0.9. TT 6.2: SP 2: P 4.2: RC 2.2. Refers to C. G. Cappel, D. Derickson, H. J. Lane, W. H. Williams, J. K. Woolf.

295 (1) COHEN, SAMUEL HENRY, Jun., 128 President St., Passaic, N. J. (Elected Oct. 2, 1922.) (Age 25. Born New York City.) 1922 S. B., Mass. Inst. Tech. June to Dec. 1918 Rodman, Erie R. R. Co. TT 2.5: SP 2.5. June to Aug. 1920 Transitman for R. S. Wise, Passaic, N. J., on municipal engineering work. June to Nov. 1922 Structural Steel Draftsman, Harris Structural Steel Co., New York City, on detailing of steel in buildings. TT 0.5: SP 0.5. Dec. 1922 to June 1923 Structural Steel Draftsman, Tunnel Div. of Board of Estimate, New York City, in connection with Brooklyn and Richmond Tunnel Shafts. TT 0.6: SP 0.6. July 1923 to Feb. 1924 Jun. Engr. in Designing Office, New York and New Jersey Bridge and Tunnel Comms., and March to Aug. 1924 Asst. Engr. in Designing Office, on work in connection with subway sections of Holland Tunnels. TT 1.2: SP 0.7: P 0.5: D 0.5. Sept. 1924 to date Bridge Designer, New Jersey State Highway Comm., Route No. 1, Extension Office, Jersey City, N. J., on studies and estimates of various routes and structures, design of part of proposed 12th St. Viaduct over Erie R. R. coach yards, Jersey City. TT 1: P 1: D 1. TT 6: SP 4.5: P 1.5: D 1.5. Refers to R. M. Beck, O. L. Brodie, S. Johannesson, F. Lavis, J. H. Quimby, L. R. Shellenberger, R. S. Wise.

296 (4) CONE, RUSSELL GLENN, Jun., 223 N. Delaware Ave., Philadelphia, Pa. (Elected Dec. 4, 1922.) (Age 29. Born Ottumwa, Iowa.) 1922 B. S. in C. E., Univ. of Ill. June to Sept. 1915 Rodman, Chicago, Burlington & Quincy R. R. Sept. 1915 to June 1916 Rodman, Paducah & Illinois R. R. TT 3.1: SP 3.1. May 1917 to May 1919 Sergeant, 149th Field Artillery, U. S. Army, 1 1/2 years in France and Germany; in charge of Eng. Sec. and assisting Chf. of Operations, drawing maps and firing plans and supervising construction of gun pits and roads for regiment (9 months at the front). TT 2: SP 0.5: P 1.5: RC 1.5. June to

Oct. of years 1920 and 1921 Inspector, Wyoming State Highway Dept., inspecting earthwork and in charge of surveying party on construction (1920) and inspecting work on construction of reinforced concrete bridges (1921). June 1922 to date Jun. Engr., Delaware River Bridge Joint Comm., field work and inspection on construction of main piers and caissons of first section of Camden anchorage; Asst. Engr. on construction of Philadelphia main tower, Philadelphia anchorage cable bent, main cables, erection of suspender ropes, hand ropes and cable bands, and suspended structure; since July 1925 Res. Engr. in charge of central section consisting of main bridge between anchorages. *TT 3.2: P 3.2: RC 1.5. TT 8.3: SP 3.6: P 4.7: RC 3.* Refers to C. L. Appleton, I. O. Baker, M. B. Case, C. E. Chase, C. Elcock, A. N. Talbot, G. S. Webster.

977 (8) KINCH, MASON HILL, Jun., 706 W. High St., Urbana, Ill. (Elected Nov. 25, 1919.) (Age 31. Born Port Huron, Mich.) 1916 B. C. E., Univ. of Mich. June 1916 to March 1917 Bridge Inspector, Michigan State Highway Dept.; Inspector on concrete work for 4-span, 110-ft. steel bridge, and on several concrete bridges including one placed during winter; tracing in office. *TT 2.7: SP 2.7.* March 1917 to March 1918 Road and Bridge Inspector, Illinois Highway Dept.; Inspector on 15 miles of grading, steel and concrete bridges, brick pavement, etc. *TT 1: SP 1.* March to Dec 1918 2d Lieut., C. A., U. S. Army, at Ft. Monroe, Va. Dec. 1918 to July 1921 with Illinois Div. of Highways, 1 1/4 years as Office Engr. in responsible charge of District Office at Peoria, Ill., on surveys and in direct charge of preparation of plans, bridge data; prepared estimates for pavement, checked designs, etc.; prepared first plans for State that were on Federal standards; last 1 1/2 years Asst. Engr. of Constr. in responsible charge of office of Engr. of Constr. during his absence; preparation of engineering reports, final checking of payment estimates, etc.; assisted in preliminary location of \$60 000 000 bond issue routes. *TT 1.6: P 1.6: RC 1.6: D 1.2.* July 1921 to April 1923 Asst. Engr., Vermilion County, Ill., in direct and responsible charge of several large paving and bridge projects, including 236-ft. concrete arch bridge, several miles of concrete paving, etc. *TT 1.7: P 1.7: RC 1.7: D 1.7.* April 1923 to date Asst. County Supt. of Highways, Champaign County, Ill., in direct charge of all engineering on roads and bridges in \$2 500 000 bond issue; supervised making of plans, surveys, estimates, prepared specifications, supervised letting of contracts; in direct and responsible charge of engineers and paving and bridge contractors; supervised completion of 150 miles of concrete paving, including concrete bridges, grading, etc. *TT 2.5: P 2.5: RC 2.5: D 2.5.* *TT 10.6: SP 3.8: P 6.8: RC 6.8: D 5.5.* Refers to G. F. Burch, P. Z. Horton, A. H. Hunter, C. L. Melcher, C. J. Moritz, W. S. Tedd, C. C. Willey.

978 (8) McGUIRE, DONALD DAVID, Jun., 100 E. Washington St., Springfield, Ill. (Elected Aug. 4, 1924.) (Age 27. Born Aurora, Ill.) Sept. 1917 to June 1918 and Jan. 1919 to May 1920 student, Coll. of Eng., Univ. of Illinois. June to Sept. 1918 at Officers' Training Camp, Ft. Sheridan, Ill., and Sept. to Dec. 1918 2d Lieut., Infantry, U. S. Army, Purdue Univ. Training Corps, Co. Commander, Co. D. *TT 1.2: SP 1.2.* June 1920 Rodman, Deutschler Eng. Co. *TT 0.1: SP 0.1.* June 1920 to Feb. 1921 Instrumentman, Chicago, Burlington & Quincy R. R. *TT 0.6: SP 0.6.* Feb. to April 1921 Computer, Valuation Dept., Missouri Pacific R. R. *TT 0.2: SP 0.2.* April 1921 to date with Div. of Highways, State of Illinois, until May 1922 as Jun. Testing Engr., Bates Experimental Road; then Asst. Dist. Engr. of Material, Dist. No. 1, and since March 1923 Asst. Engr. of Materials in charge of investigations into design of concrete pavements. *TT 4.4: SP 1.1: P 3.3: RC 3.3.* *TT 6.5: SP 3.2: P 3.3: RC 3.3.* Refers to R. R. Benedict, G. F. Burch, H. F. Clemmer, C. M. Hathaway, C. Older, H. W. Russell, F. T. Sheets

979 (1) ROTH, SAMUEL, Jun., 188 Goldsmith Ave., Newark, N. J. (Elected Nov. 26, 1923.) (Age 29. Born Kishineff, Russia.) 1919 B. S. in C. E., Cooper Union. Oct. 1914 to Jan. 1916 Asst. Laboratory Engr., Auto Club of America, analysis and testing of internal combustion engines, drafting and computing. *TT 1.2: P 1.2.* Jan. 1916 to April 1917 Draftsman with C. F. Penso, Contr., principally estimating and detailing concrete and masonry structures. *TT 1.2: P 1.2.* July 1917 to Nov. 1918 Engr., Draftsman and Computer, Interborough Rapid Transit Co., on track and terminal layouts, signal work, in charge of investigations of transportation efficiency, drafting and inspection. *TT 1.5: P 1.5: RC 0.5.* Nov. 1918 to June 1920 Structural Draftsman, U. S. Navy, Bureau of Constr. and Repair, Brooklyn, N. Y., design, detailing and checking on heavy structural steelwork on battleships. *TT 1.5: P 1.5.* June 1920 to Jan. 1921 Concrete and Structural Designer, Chile Exploration Co., Chuquicamata, Chile, on industrial plant work; complete design of \$250 000 reinforced concrete plate shop, reinforced concrete tanks, wood and steel structures, also estimating this work. *TT 0.7: P 0.7: D 0.7.* Feb. to Oct. 1921 Designer, Cerro de Pasco Copper Corpora-

tion, Oroya, Peru, designed suspension bridge for pipe-line and walk (span 450 ft.), reinforced concrete foundations, retaining walls, steel ore bin and slag tunnel; investigation of highway and railroad bridges, estimating and quantity surveying. TT 0.7: P 0.7: D 0.7. Oct. 1921 to May 1922 Concrete Designer and Field Engr. Fred T. Ley Co., Inc., Lima, Peru, general building construction, designed 6-story reinforced concrete office building, had charge of all field engineering. TT 0.6: P 0.6: RC 0.6. May to July 1922 Engr. in charge of locating and (with his partner) was granted concession by Govt. of Peru to build a 75-km. macadam road between Town of Huancayo and junction of San Fernando and Mantaro Rivers in Peru. TT 0.2: P 0.2: RC 0.2. Aug. to Oct. 1922 Designer with Timmis & Chapman, Archts. and Engrs., New York City, worked up plans for 6-story reinforced concrete printing factory. TT 0.2: P 0.2: D 0.2. Oct. 1922 to March 1924 Engr. with Moore & Dunford, Inc., Warehouse Engrs., New York City, designed and had responsible charge of supervision and construction of large reinforced concrete warehouses; also designed 8-story reinforced concrete warehouse for O. Y. Leonard. TT 1.5: P 1.5: RC 1.2: D 0.3. March 1924 to date Chf. Engr. with Daniel J. Cronin, Gen. Contr., Newark, N. J., in charge of engineering, estimating and contract work, consisting of general building construction, schools, public buildings and industrial work. TT 1.5: P 1.5: RC 1.5. TT 11: P 11: RC 4: D 2. Refers to O. L. Brodie, A. H. Bromley, H. M. Dougherty, O. Y. Leonard, I. O. Shaffer, R. E. Spaulding.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.